ISBN 0-7729-1237-8

ACIDIC PRECIPITATION IN ONTARIO STUDY

ANNUAL STATISTICS OF CONCENTRATION AND DEPOSITION - CUMULATIVE PRECIPITATION MONITORING NETWORK, 1984

ARB-235-85-AQM

APIOS-02-86

January, 1986

Ontario
Ministry of the Environment

The Honourable
Jim Bradley
Minister

Rod McLeod
Deputy Minister

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Atmospheric Processes Studies Unit
Air Quality and Meteorology Section
Ontario Ministry of the Environment
Air Resources Branch
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PART I

INTRODUCTION

INTRODUCTION

This report was prepared by William Chang, of C.C. & C. Computer System Inc. The statistical summaries presented in this report pertain to the 1984 analytical results obtained from the Acidic Precipitation in Ontario Study (APIOS) cumulative precipitation monitoring network. The relevant data can be obtained on request from the Air Resources Branch of The Ontario Ministry of the Environment. All available data are utilized in the calculations except results reported as being unreliable (i.e., results are identified as unreasonable values by using the validation procedures; detailed description of the validation procedures is available from the Ministry upon request) or approximate (i.e., inexact results are reported due to laboratory difficulties, such as maybe encountered in calibration, or when the sample cannot be re-analyzed to confirm the reported value). In a very few cases, concentration levels exceeded the upper limit of the range of the chemical analysis. Rather than using the upper limit, a decision was made to exclude these values from the statistics generated in this report. Reported results for metals which have missing leachate analysis are also excluded from statistical analysis. Results labelled as W are replaced by "zero". W is the level which the analytical technique cannot distinguish from zero. If a level is recorded less than the detection limit T, a value corresponding to one half the detection limit is utilized for statistical calculations as reported in the statistical summaries. Note that T is normally about ten times W, and values above the T criteria are considered to be precise and accurate. W corresponds to approximately one standard deviation of low level duplicates of real samples.

The reported cumulative precipitation gauge depth (or Environment Canada's CLIMAT result) is utilized in the calculation of deposition. If a precipitation gauge value is not available, then the collected sample volume is converted to its equivalent precipitation depth and is used in the deposition calculation.

The statistical summaries presented in Parts III to VI include number of samples, mean (arithmetic/geometric), standard deviation (arithmetic/geometric), maximum, minimum, quartiles and precipitation weighted means using precipitation gauge depths where appropriate. These statistics are for an average sampling period. Data which correspond to irregular sampling periods were either combined if they are from consecutive collection periods which span 28d $\pm$ 5d, or deleted, before the statistics are generated.

PART II

STATION DESCRIPTION AND LOCATION MAP

AR36-99

APIOS CUMULATIVE WET DEPOSITION NETWORK SITE DESCRIPTIONS

MOE REGION	STATION NAME	ELEVATION (m above MSL)	LATITUDE (North)	LONGITUDE (West)	UTM GRID CO-ORDINANTS (Northing)	(Easting)
Southwestern	Colchester	183	41°59'15"	82°55'41"	4650000	340300
	Merlin	191	42°14'47"	82°13'30"	4676400	398950
	Pt. Stanley	213	42°40'22"	81°09'55"	4724050	486700
	Wilkesport	183	42°42'11"	82°21'13"	4728350	389150
	Alvinston	221	42°49'36"	81°50'04"	4942000	431550
	Shallow Lake	229	44°34'54"	81°05'24"	4936200	492850
	Palmerston	389	43°48'19"	80°54'12"	4850050	507750
	Huron Park	250	43°17'28"	81°30'03"	4793000	459350
	Waterloo	343	43°28'39"	80°35'09"	4813750	533500
Central	Dorset	320	45°13'26"	78°55'52"	5009650	662400
	Milton	221	43°31'05"	79°55'54"	4818600	586350
	Uxbridge	244	44°12'46"	79°12'38"	4896800	643000
	Wilberforce	396	45°00'54"	78°12'58"	4988150	719400
	Campbellford	175	44°17'28"	77°47'33"	4907600	277150
	Coldwater	280	44°37'31"	79°32'08"	4942200	615900
Southeastern	Smith's Falls	122	44°56'41"	75°57'48"	4977100	423950
	Dalhousie Mills	69	45°19'00"	74°28'13"	5018100	541550
	Golden Lake	160	45°36'48"	77°12'03"	5053200	328400
	Cloyne	259	40°49'09"	77°11'45"	4964750	327100
Northeastern	McKellar	244	45°30'57"	79°55'19"	5040600	583950
	Killarney	183	45°59'26"	81°29'18"	5092900	462200
	Mattawa	198	46°16'45"	78°49'19"	5127150	667800
	Bear Island	305	46°58'22"	80°04'40"	5202400	570350
	Azure Lake	244	47°28'12"	81°52'30"	5257650	434250
	Gowganda	343	47°39'04"	80°46'32"	5277300	516600
	Moonbeam	244	49°19'16"	82°08'46"	5463600	416650
	Turkey Lake	472	47°03'15"	84°24'00"	5214250	696750
	Attawapiskat	9	52°56'00"	82°24'00"	NA	NA
	Whitney	412	45°32'21"	78°15'35"	5045950	713950
Northwestern	Dorion	244	48°50'33"	88°36'45"	5410800	382150
	Geraldton	351	49°48'05"	86°46'00"	5516300	516750
	Ear Falls	350	50°38'31"	93°13'13"	5609800	484150
	Pickle Lake	360	51°27'41"	90°12'04"	5704800	694550
	Lac la Croix	368	48°21'14"	92°1232"	5355900	558400
	Quetico Centre	420	48°44'24"	91°12'08"	5399750	632100
	E.L.A.	123	49°39'22"	93°43'28"	5500950	447350
	Winisk	9	55°12'00"	85°08'00"	NA	NA
	Otter Islanc	204	48°06'5[illegible]"	8[illegible]°04'25"	5328750	569500

FIGURE 1

LOCATION OF APIOS CUMULATIVE WET DEPOSITIONS NETWORK SITES

1. Colchester*
2. Martin
3. Pt. Stanley*
4. Wilkesport*
5. Alvinston
6. Huron Park
7. Waterloo
8. Palmerston*
9. Shallow Lake*
10. Milton (removed March 1984)
11. Uxbridge*
12. Coldwater
13. Campbellford*
14. Cloyne*
(replacing Kalndar, June 1983)
15. Smith's Falls*
16. Dalhousie Mills*
17. Golden Lake*
18. Wilberforce
19. Whitney
20. Dorset*
21. McKellar*
22. Mattawa*
23. Killarney*
24. Bear Island
25. Gowganda*
26. Azure Lake
(replacing Ramsey, June 1983)
27. Moosonee*
28. Attawapiskat
(removed February 1984)
29. Winisk
30. Geraldton*
(replacing Nakina, August 1983)
31. Dorion*
32. Quetico Centre*
33. Lac la Croix
34. Experimental Lakes Area
35. Ear Falls*
36. Pickle Lake*
37. Turkey Lake*
38. Otter Island*
(operated only during "summer" periods)
39. Moosonee*
(installed October, 1985)

* indicates both a dry and wet deposition network site

PART III

SUMMARY STATISTICS OF PRECIPITATION CONCENTRATION BY STATION

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : ALVINSTON/CUMULATIVE PRECIP. #05

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85 PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	11	10	10	11	11	11
MAXIMUM :	134.0	46.6	5.05	0.0891	0.1616	6.75	1.200
MINIMUM :	32.0	21.1	4.05	0.0089	0.0216	1.90	0.340
RANGE :	102.0	25.5	1.00	0.0802	0.1400	4.85	0.860
ARITH. MEAN :	77.8	34.6	4.32	0.0570	0.0863	3.94	0.678
ARITH. STD. DEV :	28.7	11.1	0.32	0.0288	0.0416	1.51	0.301
GEOM. MEAN :	72.8	32.9	4.31	0.0473	0.0752	3.67	0.624
GEOM. STD. DEV. :	1.5	1.4	1.07	2.0987	1.8198	1.50	1.526
1ST QUARTILE :	54.8	22.8	4.07	0.0302	0.0435	2.27	0.430
2ND QUARTILE :	73.8	30.3	4.21	0.0627	0.0849	3.63	0.565
3RD QUARTILE :	90.5	45.8	4.41	0.0805	0.1129	4.85	0.820
VOL. WGT. MEAN :	*******	34.4	*******	0.0574	0.0925	3.95	0.624

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	11	12	11	11	11	12	12
MAXIMUM :	2.000	0.540	1.820	0.470	0.225	0.260	1.300
MINIMUM :	0.140	0.110	0.230	0.020	0.002	0.020	0.068
RANGE :	1.860	0.430	1.590	0.450	0.223	0.240	1.232
ARITH. MEAN :	0.690	0.274	0.575	0.132	0.068	0.105	0.521
ARITH. STD. DEV :	0.617	0.126	0.465	0.138	0.064	0.073	0.366
GEOM. MEAN :	0.478	0.248	0.464	0.082	0.041	0.083	0.400
GEOM. STD. DEV. :	2.477	1.607	1.896	2.816	3.572	2.136	2.275
1ST QUARTILE :	0.200	0.175	0.265	0.030	0.019	0.057	0.238
2ND QUARTILE :	0.355	0.260	0.375	0.060	0.045	0.087	0.457
3RD QUARTILE :	0.955	0.355	0.710	0.178	0.090	0.130	0.715
VOL. WGT. MEAN :	0.711	0.260	0.549	0.117	0.066	0.094	0.530

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : ALVINSTON/CUMULATIVE PRECIP. 805

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES	11	10	12	12	10	11	12
MAXIMUM	0.0690	13.00	3.00	34.39	119.10	21.84	1.00
MINIMUM	0.0000	1.00	0.20	3.52	15.92	2.56	0.20
RANGE	0.0690	12.00	2.80	30.87	103.18	19.28	0.80
ARITH. MEAN	0.0148	5.50	0.77	15.75	52.01	9.74	0.83
ARITH. STD. DEV	0.0195	4.20	0.85	9.65	36.61	6.89	0.31
GEOM. MEAN	0.0143	4.18	0.54	12.74	40.99	7.71	0.75
GEOM. STD. DEV.	3.2533	2.24	2.22	2.08	2.09	2.06	1.73
1ST QUARTILE	0.0030	2.50	0.40	7.60	21.12	3.84	0.70
2ND QUARTILE	0.0055	3.50	0.50	14.55	35.31	6.56	1.00
3RD QUARTILE	0.0170	7.00	0.50	22.79	77.43	14.42	1.00
VOL. WGT. MEAN	0.0129	4.83	0.73	14.48	46.07	8.72	0.84

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES	10	12	12
MAXIMUM	98.52	5.34	2.80
MINIMUM	13.32	0.53	0.10
RANGE	85.20	4.81	2.70
ARITH. MEAN	49.25	1.76	0.76
ARITH. STD. DEV	29.78	1.33	0.87
GEOM. MEAN	41.31	1.42	0.44
GEOM. STD. DEV.	1.90	1.97	3.05
1ST QUARTILE	27.11	0.81	0.19
2ND QUARTILE	34.68	1.39	0.44
3RD QUARTILE	70.51	2.28	0.90
VOL. WGT. MEAN	45.27	1.65	0.71

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : ATTAWAPISKAT/CUMULATIVE PRECIP. #28

PERIOD OF REPORT : JAN 3,84 TO FEB 28,84 PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	2	0	0	0	0	0	0
MAXIMUM :	0.6	********	********	********	********	********	********
MINIMUM :	0.0	********	********	********	********	********	********
RANGE :	0.6	********	********	********	********	********	********
ARITH. MEAN :	0.3	********	********	********	********	********	********
ARITH. STD. DEV :	0.4	********	********	********	********	********	********
GEOM. MEAN :	0.7	********	********	********	********	********	********
GEOM. STD. DEV. :	1.3	********	********	********	********	********	********
1ST QUARTILE :	********	********	********	********	********	********	********
2ND QUARTILE :	********	********	********	********	********	********	********
3RD QUARTILE :	********	********	********	********	********	********	********
VOL. WGT. MEAN :	********	********	********	********	********	********	********

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	0	0	0	0	0	0	0
MAXIMUM :	********	********	********	********	********	********	********
MINIMUM :	********	********	********	********	********	********	********
RANGE :	********	********	********	********	********	********	********
ARITH. MEAN :	********	********	********	********	********	********	********
ARITH. STD. DEV :	********	********	********	********	********	********	********
GEOM. MEAN :	********	********	********	********	********	********	********
GEOM. STD. DEV. :	********	********	********	********	********	********	********
1ST QUARTILE :	********	********	********	********	********	********	********
2ND QUARTILE :	********	********	********	********	********	********	********
3RD QUARTILE :	********	********	********	********	********	********	********
VOL. WGT. MEAN :	********	********	********	********	********	********	********

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : ATTAWAPISKAT/CUMULATIVE PRECIP. #28

PERIOD OF REPORT : JAN 3,84 TO FEB 28,84

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	0	0	0	0	0	0	0
MAXIMUM :	********	*******	*******	*******	*******	*******	*******
MINIMUM :	********	*******	*******	*******	*******	*******	*******
RANGE :	********	*******	*******	*******	*******	*******	*******
ARITH. MEAN :	********	*******	*******	*******	*******	*******	*******
ARITH. STD. DEV :	********	*******	*******	*******	*******	*******	*******
GEOM. MEAN :	********	*******	*******	*******	*******	*******	*******
GEOM. STD. DEV. :	********	*******	*******	*******	*******	*******	*******
1ST QUARTILE :	********	*******	*******	*******	*******	*******	*******
2ND QUARTILE :	********	*******	*******	*******	*******	*******	*******
3RD QUARTILE :	********	*******	*******	*******	*******	*******	*******
VOL. MGT. MEAN :	********	*******	*******	*******	*******	*******	*******

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	0	0	0
MAXIMUM :	*******	*******	*******
MINIMUM :	*******	*******	*******
RANGE :	*******	*******	*******
ARITH. MEAN :	*******	*******	*******
ARITH. STD. DEV :	*******	*******	*******
GEOM. MEAN :	*******	*******	*******
GEOM. STD. DEV. :	*******	*******	*******
1ST QUARTILE :	*******	*******	*******
2ND QUARTILE :	*******	*******	*******
3RD QUARTILE :	*******	*******	*******
VOL. MGT. MEAN :	*******	*******	*******

***** : INSUFFICIENT DATA OR NOT APPLICABLE

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : AZURE LAKE/CUMULATIVE PRECIP. #26

PERIOD OF REPORT : JAN 9,84 TO DEC 4,84

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	169.0	50.0	4.75	0.1023	0.1344	4.40	0.730
MINIMUM :	20.6	13.0	3.99	0.0178	0.0392	1.00	0.100
RANGE :	148.4	37.0	0.76	0.0845	0.0952	3.40	0.630
ARITH. MEAN :	68.5	23.1	4.47	0.0383	0.0642	2.31	0.350
ARITH. STD. DEV :	42.2	10.6	0.21	0.0236	0.0267	1.20	0.220
GEOM. MEAN :	58.1	21.4	4.46	0.0340	0.0605	2.06	0.294
GEOM. STD. DEV. :	1.8	1.5	1.05	1.6058	1.4040	1.64	1.867
1ST QUARTILE :	33.1	15.9	4.33	0.0246	0.0494	1.38	0.185
2ND QUARTILE :	57.6	18.3	4.52	0.0299	0.0527	1.68	0.255
3RD QUARTILE :	81.8	26.8	4.57	0.0389	0.0664	2.93	0.475
VOL. WGT. MEAN :	*******	19.7	*******	0.0308	0.0561	2.14	0.289

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	11	10	11	11	11	10	11
MAXIMUM :	0.850	0.230	0.800	0.130	0.330	0.110	0.575
MINIMUM :	0.040	0.010	0.140	0.005	0.002	0.002	0.070
RANGE :	0.810	0.220	0.660	0.125	0.327	0.108	0.505
ARITH. MEAN :	0.181	0.112	0.406	0.030	0.073	0.053	0.256
ARITH. STD. DEV :	0.231	0.068	0.238	0.038	0.097	0.035	0.158
GEOM. MEAN :	0.121	0.086	0.340	0.017	0.029	0.038	0.211
GEOM. STD. DEV. :	2.291	2.478	1.911	2.844	4.953	2.960	1.980
1ST QUARTILE :	0.070	0.060	0.175	0.008	0.005	0.030	0.108
2ND QUARTILE :	0.090	0.095	0.310	0.010	0.030	0.042	0.205
3RD QUARTILE :	0.150	0.140	0.600	0.030	0.103	0.072	0.355
VOL. WGT. MEAN :	0.171	0.099	0.433	0.026	0.077	0.046	0.266

****** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : AZURE LAKE/CUMULATIVE PRECIP. #26

PERIOD OF REPORT : JAN 9,84 TO DEC 4,84

	PHOSPHOR MG/L	MANGANSE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L	LEAD UG/L	VANADIUM UG/L
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	0.1280	14.00	5.00	17.57	186.70	14.63	1.00
MINIMUM :	0.0010	0.50	0.20	1.44	11.60	2.41	0.20
RANGE :	0.1270	13.50	4.80	16.13	175.10	12.22	0.80
ARITH. MEAN :	0.0204	3.50	1.29	7.32	55.65	6.16	0.93
ARITH. STD. DEV :	0.0369	3.87	1.84	5.15	56.90	3.78	0.24
GEOM. MEAN :	0.0073	2.31	0.70	5.70	37.08	5.24	0.86
GEOM. STD. DEV. :	4.4005	2.53	2.75	2.18	2.51	1.81	1.62
1ST QUARTILE :	0.0018	1.00	0.50	2.68	16.64	2.77	1.00
2ND QUARTILE :	0.0070	2.00	0.50	5.93	26.93	4.59	1.00
3RD QUARTILE :	0.0205	4.00	0.50	9.74	58.15	7.93	1.00
VOL. WGT. MEAN :	0.0207	3.42	1.15	5.64	47.86	5.25	0.94

	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L
# OF SAMPLES :	11	11	11
MAXIMUM :	296.20	4.23	0.30
MINIMUM :	9.10	0.72	0.05
RANGE :	287.10	3.51	0.25
ARITH. MEAN :	64.98	1.90	0.12
ARITH. STD. DEV :	81.26	1.20	0.07
GEOM. MEAN :	40.00	1.58	0.11
GEOM. STD. DEV. :	2.70	1.87	1.63
1ST QUARTILE :	15.64	0.84	0.08
2ND QUARTILE :	35.30	1.27	0.10
3RD QUARTILE :	76.06	2.52	0.10
VOL. WGT. MEAN :	60.60	1.65	0.11

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BEAR ISLAND/CUMULATIVE PRECIP. #24

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85 PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	12	11	10	10	10	11	11
MAXIMUM :	159.1	46.5	4.69	0.0912	0.1238	5.00	0.740
MINIMUM :	13.7	10.4	4.04	0.0204	0.0426	0.95	0.080
RANGE :	145.4	36.1	0.65	0.0708	0.0812	4.05	0.660
ARITH. MEAN :	61.6	29.2	4.30	0.0535	0.0762	3.01	0.405
ARITH. STD. DEV :	37.9	10.1	0.19	0.0207	0.0261	1.35	0.180
GEOM. MEAN :	51.4	27.3	4.30	0.0495	0.0721	2.65	0.358
GEOM. STD. DEV. :	1.9	1.5	1.04	1.5454	1.4238	1.79	1.811
1ST QUARTILE :	45.7	21.6	4.15	0.0374	0.0500	1.25	0.255
2ND QUARTILE :	54.5	26.8	4.30	0.0507	0.0724	3.25	0.395
3RD QUARTILE :	73.5	36.3	4.34	0.0618	0.0885	3.82	0.455
VOL. WGT. MEAN :	*******	27.2	*******	0.0479	0.0709	3.13	0.362

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	11	11	9	11	10	10	10
MAXIMUM :	0.510	0.310	1.070	0.090	0.325	0.175	0.670
MINIMUM :	0.050	0.080	0.120	0.005	0.002	0.015	0.040
RANGE :	0.460	0.230	0.950	0.085	0.322	0.160	0.630
ARITH. MEAN :	0.223	0.168	0.449	0.038	0.110	0.085	0.263
ARITH. STD. DEV :	0.143	0.074	0.306	0.024	0.115	0.063	0.190
GEOM. MEAN :	0.179	0.154	0.354	0.030	0.053	0.062	0.192
GEOM. STD. DEV. :	2.079	1.555	2.151	2.271	4.487	2.461	2.523
1ST QUARTILE :	0.085	0.095	0.165	0.017	0.020	0.025	0.066
2ND QUARTILE :	0.180	0.140	0.400	0.032	0.057	0.065	0.271
3RD QUARTILE :	0.305	0.205	0.570	0.047	0.167	0.135	0.348
VOL. WGT. MEAN :	0.215	0.162	0.571	0.038	0.117	0.077	0.344

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BEAR ISLAND/CUMULATIVE PRECIP. 824

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	9	11	11	11	11	11	11
MAXIMUM :	0.0900	6.00	3.00	27.53	208.00	12.85	1.00
MINIMUM :	0.0020	0.50	0.50	2.68	8.72	3.98	0.20
RANGE :	0.0880	5.50	2.50	24.85	199.28	8.87	0.80
ARITH. MEAN :	0.0206	2.41	0.88	7.58	44.49	8.14	0.93
ARITH. STD. DEV :	0.0270	1.50	0.83	6.88	56.29	2.80	0.24
GEOM. MEAN :	0.0122	1.99	0.69	6.12	29.34	7.70	0.86
GEOM. STD. DEV. :	2.8745	1.99	1.90	1.84	2.38	1.42	1.62
1ST QUARTILE :	0.0070	1.00	0.50	3.96	13.36	5.88	1.00
2ND QUARTILE :	0.0110	2.00	0.50	5.57	29.40	7.48	1.00
3RD QUARTILE :	0.0155	3.00	0.60	6.66	37.55	9.46	1.00
VOL. WGT. MEAN :	0.0323	2.39	0.61	7.17	44.26	7.88	0.90

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	11	11	11
MAXIMUM :	235.80	3.87	1.00
MINIMUM :	7.70	0.72	0.05
RANGE :	228.10	3.15	0.95
ARITH. MEAN :	50.59	2.25	0.28
ARITH. STD. DEV :	64.06	1.15	0.28
GEOM. MEAN :	32.92	1.93	0.19
GEOM. STD. DEV. :	2.45	1.86	2.39
1ST QUARTILE :	17.20	0.93	0.09
2ND QUARTILE :	29.03	2.33	0.20
3RD QUARTILE :	43.53	3.12	0.30
VOL. WGT. MEAN :	46.01	2.24	0.27

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CAMPBELLFORD/CUMULATIVE PRECIP. 813

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES	13	12	11	11	11	12	12
MAXIMUM	139.0	50.8	4.48	0.1047	0.1174	5.60	0.990
MINIMUM	27.5	19.5	3.98	0.0331	0.0246	1.40	0.370
RANGE	111.5	31.3	0.50	0.0716	0.0928	4.20	0.620
ARITH. MEAN	69.0	36.4	4.18	0.0683	0.0883	3.80	0.699
ARITH. STD. DEV	39.5	10.1	0.13	0.0188	0.0285	1.26	0.184
GEOM. MEAN	60.0	34.9	4.18	0.0557	0.0820	3.57	0.675
GEOM. STD. DEV.	1.7	1.4	1.03	1.3636	1.5833	1.48	1.330
1ST QUARTILE	37.0	29.8	4.10	0.0534	0.0624	3.17	0.540
2ND QUARTILE	51.5	38.1	4.16	0.0676	0.0961	3.80	0.715
3RD QUARTILE	74.0	43.6	4.19	0.0776	0.1084	4.70	0.805
VOL. WGT. MEAN	********	36.5	********	0.0661	0.0881	3.73	0.668

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES	12	12	11	12	10	12	12
MAXIMUM	1.040	0.450	1.160	0.130	0.095	0.215	0.945
MINIMUM	0.100	0.100	0.200	0.020	0.000	0.035	0.186
RANGE	0.940	0.350	0.960	0.110	0.095	0.180	0.759
ARITH. MEAN	0.529	0.207	0.586	0.070	0.040	0.095	0.501
ARITH. STD. DEV	0.268	0.103	0.263	0.035	0.031	0.055	0.217
GEOM. MEAN	0.452	0.187	0.534	0.061	0.047	0.082	0.459
GEOM. STD. DEV.	1.913	1.594	1.600	1.751	2.535	1.780	1.563
1ST QUARTILE	0.300	0.140	0.395	0.040	0.008	0.057	0.390
2ND QUARTILE	0.580	0.170	0.510	0.060	0.040	0.077	0.433
3RD QUARTILE	0.690	0.270	0.680	0.097	0.050	0.127	0.625
VOL. WGT. MEAN	0.479	0.185	0.553	0.070	0.042	0.081	0.466

****** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CAMPBELLFORD/CUMULATIVE PRECIP. #13

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR MG/L	MANGANSE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L	LEAD UG/L	VANADIUM UG/L
# OF SAMPLES :	11	12	12	12	12	12	12
MAXIMUM :	0.1250	8.00	1.00	13.38	110.40	17.06	1.00
MINIMUM :	0.0010	1.00	0.40	4.56	14.68	5.56	0.50
RANGE :	0.1240	7.00	0.60	8.82	95.72	11.50	0.50
ARITH. MEAN :	0.0220	4.17	0.57	8.74	48.43	10.06	0.91
ARITH. STD. DEV :	0.0356	2.12	0.17	3.08	26.16	3.93	0.18
GEOM. MEAN :	0.0097	3.61	0.55	8.23	42.53	9.38	0.89
GEOM. STD. DEV. :	3.9015	1.82	1.28	1.45	1.72	1.48	1.27
1ST QUARTILE :	0.0032	2.50	0.50	6.57	31.27	6.50	0.90
2ND QUARTILE :	0.0095	4.00	0.50	8.25	45.93	9.25	1.00
3RD QUARTILE :	0.0200	5.50	0.55	11.32	56.13	13.36	1.00
VOL. WGT. MEAN :	0.0176	3.81	0.55	8.39	43.11	9.49	0.93

	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L
# OF SAMPLES :	12	12	12
MAXIMUM :	120.00	3.17	0.24
MINIMUM :	25.40	0.68	0.05
RANGE :	94.60	2.49	0.19
ARITH. MEAN :	52.89	1.59	0.12
ARITH. STD. DEV :	27.39	0.86	0.05
GEOM. MEAN :	47.36	1.39	0.11
GEOM. STD. DEV. :	1.62	1.71	1.48
1ST QUARTILE :	30.63	0.84	0.10
2ND QUARTILE :	48.66	1.37	0.10
3RD QUARTILE :	66.73	2.48	0.10
VOL. WGT. MEAN :	45.89	1.57	0.11

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CLOYNE/CUMULATIVE PRECIP. #14

PERIOD OF REPORT : DEC 4,84 TO JAN 2,85 PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	1	1	1	1	0	1	1
MAXIMUM :	49.4	25.2	4.36	0.0437	********	2.30	0.520
MINIMUM :	49.4	25.2	4.36	0.0437	********	2.30	0.520
RANGE :	0.0	0.0	0.00	0.0000	********	0.00	0.000
ARITH. MEAN :	********	********	********	********	********	********	********
ARITH. STD. DEV :	********	********	********	********	********	********	********
GEOM. MEAN :	********	********	********	********	********	********	********
GEOM. STD. DEV. :	********	********	********	********	********	********	********
1ST QUARTILE :	********	********	********	********	********	********	********
2ND QUARTILE :	********	********	********	********	********	********	********
3RD QUARTILE :	********	********	********	********	********	********	********
VOL. WGT. MEAN :	********	********	********	********	********	********	********

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	1	1	1	1	1	1	1
MAXIMUM :	0.400	0.260	0.350	0.030	0.070	0.100	0.260
MINIMUM :	0.400	0.260	0.350	0.030	0.070	0.100	0.260
RANGE :	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ARITH. MEAN :	********	********	********	********	********	********	********
ARITH. STD. DEV :	********	********	********	********	********	********	********
GEOM. MEAN :	********	********	********	********	********	********	********
GEOM. STD. DEV. :	********	********	********	********	********	********	********
1ST QUARTILE :	********	********	********	********	********	********	********
2ND QUARTILE :	********	********	********	********	********	********	********
3RD QUARTILE :	********	********	********	********	********	********	********
VOL. WGT. MEAN :	********	********	********	********	********	********	********

****** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CLOYNE/CUMULATIVE PRECIP. #14

PERIOD OF REPORT : DEC 4,84 TO JAN 2,85

	PHOSPHOR MG/L	MANGANSE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L	LEAD UG/L	VANADIUM UG/L
# OF SAMPLES	1	1	1	1	1	1	1
MAXIMUM	0.0090	2.00	0.50	6.62	22.99	7.31	0.20
MINIMUM	0.0090	2.00	0.50	6.62	22.99	7.31	0.20
RANGE	0.0000	0.00	0.00	0.00	0.00	0.00	0.00
ARITH. MEAN	********	*******	*******	*******	*******	*******	*******
ARITH. STD. DEV	********	*******	*******	*******	*******	*******	*******
GEOM. MEAN	********	*******	*******	*******	*******	*******	*******
GEOM. STD. DEV.	********	*******	*******	*******	*******	*******	*******
1ST QUARTILE	********	*******	*******	*******	*******	*******	*******
2ND QUARTILE	********	*******	*******	*******	*******	*******	*******
3RD QUARTILE	********	*******	*******	*******	*******	*******	*******
VOL. WGT. MEAN	********	*******	*******	*******	*******	*******	*******

	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L
# OF SAMPLES	1	1	1
MAXIMUM	31.56	2.62	0.50
MINIMUM	31.56	2.62	0.50
RANGE	0.00	0.00	0.00
ARITH. MEAN	*******	*******	*******
ARITH. STD. DEV	*******	*******	*******
GEOM. MEAN	*******	*******	*******
GEOM. STD. DEV.	*******	*******	*******
1ST QUARTILE	*******	*******	*******
2ND QUARTILE	*******	*******	*******
3RD QUARTILE	*******	*******	*******
VOL. WGT. MEAN	*******	*******	*******

***** : INSUFFICIENT DATA OR NOT APPLICABLE

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : COLCHESTER/CUMULATIVE PRECIP. 801

PERIOD OF REPORT : JAN 3,84 TO JAN 1,85 PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	13	12	12	12	13	13
MAXIMUM :	126.0	65.6	4.76	0.1413	0.1600	7.20	0.910
MINIMUM :	22.0	21.0	3.85	0.0174	0.0360	2.05	0.380
RANGE :	104.0	44.6	0.91	0.1239	0.1240	5.15	0.530
ARITH. MEAN :	61.2	39.4	4.24	0.0675	0.0944	4.37	0.666
ARITH. STD. DEV :	27.9	15.1	0.28	0.0387	0.0373	1.60	0.208
GEOM. MEAN :	55.1	37.1	4.24	0.0571	0.0873	4.08	0.634
GEOM. STD. DEV. :	1.6	1.4	1.07	1.8871	1.5361	1.48	1.398
1ST QUARTILE :	41.0	28.9	4.05	0.0405	0.0676	2.82	0.465
2ND QUARTILE :	58.0	34.5	4.20	0.0624	0.0919	4.18	0.675
3RD QUARTILE :	70.5	39.6	4.40	0.0915	0.1207	5.38	0.825
VOL. WGT. MEAN :	*******	38.5	*******	0.0659	0.0919	4.39	0.625

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	1.320	0.720	1.570	0.340	0.240	0.655	1.600
MINIMUM :	0.150	0.160	0.250	0.025	0.000	0.035	0.184
RANGE :	1.170	0.560	1.320	0.315	0.240	0.620	1.416
ARITH. MEAN :	0.599	0.361	0.659	0.135	0.060	0.167	0.535
ARITH. STD. DEV :	0.412	0.195	0.381	0.098	0.076	0.190	0.405
GEOM. MEAN :	0.476	0.320	0.572	0.105	0.042	0.104	0.429
GEOM. STD. DEV. :	2.060	1.642	1.736	2.157	3.745	2.621	1.955
1ST QUARTILE :	0.280	0.225	0.390	0.062	0.010	0.042	0.215
2ND QUARTILE :	0.415	0.260	0.505	0.085	0.025	0.090	0.397
3RD QUARTILE :	0.715	0.400	0.750	0.175	0.057	0.150	0.542
VOL. WGT. MEAN :	0.560	0.315	0.655	0.127	0.062	0.133	0.555

: INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : COLDWATER/CUMULATIVE PRECIP. #12

PERIOD OF REPORT : JAN 3,84 TO DEC 31,84 PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	13	12	12	12	13	13
MAXIMUM :	132.0	38.8	4.77	0.0741	0.0942	5.90	0.750
MINIMUM :	40.0	11.3	4.13	0.0170	0.0310	1.20	0.270
RANGE :	92.0	27.5	0.64	0.0571	0.0632	4.70	0.480
ARITH. MEAN :	74.5	29.0	4.34	0.0489	0.0728	3.05	0.499
ARITH. STD. DEV :	26.3	8.0	0.18	0.0167	0.0173	1.32	0.133
GEOM. MEAN :	70.7	27.8	4.34	0.0457	0.0704	2.78	0.482
GEOM. STD. DEV. :	1.4	1.4	1.04	1.5143	1.3461	1.58	1.332
1ST QUARTILE :	56.6	24.4	4.20	0.0359	0.0636	1.82	0.365
2ND QUARTILE :	63.4	28.6	4.27	0.0537	0.0752	2.85	0.525
3RD QUARTILE :	86.5	34.2	4.44	0.0624	0.0837	3.80	0.560
VOL. WGT. MEAN :	*******	28.8	*******	0.0485	0.0726	3.02	0.492

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	1.800	0.500	1.210	0.275	0.275	0.235	0.835
MINIMUM :	0.160	0.110	0.250	0.008	0.000	0.002	0.140
RANGE :	1.640	0.390	0.960	0.267	0.275	0.233	0.695
ARITH. MEAN :	0.408	0.219	0.547	0.063	0.059	0.085	0.420
ARITH. STD. DEV :	0.435	0.116	0.302	0.069	0.078	0.069	0.228
GEOM. MEAN :	0.310	0.197	0.483	0.043	0.048	0.052	0.365
GEOM. STD. DEV. :	1.952	1.578	1.656	2.441	2.863	3.622	1.753
1ST QUARTILE :	0.175	0.140	0.320	0.025	0.016	0.032	0.233
2ND QUARTILE :	0.260	0.165	0.430	0.035	0.027	0.062	0.337
3RD QUARTILE :	0.395	0.225	0.635	0.065	0.052	0.127	0.537
VOL. WGT. MEAN :	0.379	0.201	0.518	0.059	0.051	0.076	0.405

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : COLDWATER/CUMULATIVE PRECIP. #12

PERIOD OF REPORT : JAN 3,84 TO DEC 31,84

	PHOSPHOR MG/L	MANGANSE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L	LEAD UG/L	VANADIUM UG/L
# OF SAMPLES	12	12	13	13	13	13	13
MAXIMUM	0.0500	7.00	0.50	10.71	235.40	10.40	1.00
MINIMUM	0.0000	1.00	0.20	3.40	12.91	2.74	0.20
RANGE	0.0500	6.00	0.30	7.31	222.49	7.66	0.80
ARITH. MEAN	0.0115	2.83	0.46	5.39	53.47	6.67	0.88
ARITH. STD. DEV	0.0145	1.59	0.10	1.96	60.96	1.99	0.30
GEOM. MEAN	0.0102	2.52	0.45	5.13	37.53	6.36	0.78
GEOM. STD. DEV.	3.4535	1.64	1.32	1.38	2.19	1.41	1.83
1ST QUARTILE	0.0018	2.00	0.50	3.84	21.02	5.64	1.00
2ND QUARTILE	0.0070	2.00	0.50	4.72	32.00	6.53	1.00
3RD QUARTILE	0.0140	3.50	0.50	6.07	44.15	7.32	1.00
VOL. MGT. MEAN	0.0106	2.93	0.45	5.28	53.20	6.68	0.86

	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L
# OF SAMPLES	12	13	13
MAXIMUM	126.00	3.42	0.20
MINIMUM	20.42	0.22	0.04
RANGE	105.58	3.20	0.16
ARITH. MEAN	40.35	1.33	0.09
ARITH. STD. DEV	27.95	0.84	0.04
GEOM. MEAN	35.58	1.10	0.08
GEOM. STD. DEV.	1.59	1.97	1.59
1ST QUARTILE	26.27	0.78	0.05
2ND QUARTILE	34.14	1.10	0.10
3RD QUARTILE	40.32	1.46	0.10
VOL. MGT. MEAN	44.13	1.31	0.08

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DALHOUSIE MILLS/CUMULATIVE PRECIP. #16

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	13	10	10	11	12	12
MAXIMUM :	156.3	63.8	4.66	0.0891	0.1328	4.75	1.490
MINIMUM :	25.1	13.3	4.05	0.0219	0.0468	1.40	0.240
RANGE :	131.2	50.5	0.61	0.0672	0.0860	3.35	1.250
ARITH. MEAN :	67.3	33.3	4.29	0.0552	0.0832	3.17	0.627
ARITH. STD. DEV :	36.9	13.5	0.18	0.0194	0.0280	0.98	0.335
GEOM. MEAN :	59.4	31.0	4.28	0.0515	0.0791	3.02	0.561
GEOM. STD. DEV. :	1.7	1.5	1.04	1.5135	1.3988	1.41	1.623
1ST QUARTILE :	38.5	26.0	4.18	0.0378	0.0548	2.38	0.450
2ND QUARTILE :	58.8	29.9	4.22	0.0603	0.0763	3.35	0.565
3RD QUARTILE :	72.4	34.4	4.34	0.0653	0.0926	3.57	0.675
VOL. WGT. MEAN :	*******	32.2	*******	0.0541	0.0823	3.11	0.536

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	12	11	13	12	13	11	13
MAXIMUM :	0.770	0.360	1.820	0.100	0.150	0.345	1.500
MINIMUM :	0.120	0.090	0.270	0.015	0.000	0.030	0.200
RANGE :	0.650	0.270	1.550	0.085	0.150	0.315	1.300
ARITH. MEAN :	0.396	0.189	0.782	0.055	0.065	0.108	0.573
ARITH. STD. DEV :	0.245	0.078	0.478	0.032	0.053	0.090	0.323
GEOM. MEAN :	0.321	0.176	0.670	0.046	0.090	0.084	0.509
GEOM. STD. DEV. :	2.016	1.492	1.775	1.963	2.523	2.047	1.648
1ST QUARTILE :	0.175	0.125	0.390	0.027	0.019	0.042	0.339
2ND QUARTILE :	0.365	0.160	0.665	0.050	0.047	0.077	0.555
3RD QUARTILE :	0.610	0.215	0.850	0.085	0.095	0.120	0.632
VOL. WGT. MEAN :	0.342	0.175	0.703	0.048	0.060	0.088	0.500

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DALHOUSIE MILLS/CUMULATIVE PRECIP. #16

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR MG/L	MANGANSE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L	LEAD UG/L	VANADIUM UG/L
# OF SAMPLES	13	13	13	13	13	12	13
MAXIMUM	0.1250	19.00	5.00	35.97	191.10	20.16	2.00
MINIMUM	0.0015	1.00	0.20	4.27	18.01	3.55	0.60
RANGE	0.1235	18.00	4.80	31.70	173.09	16.61	1.40
ARITH. MEAN	0.0307	6.69	1.38	12.05	61.09	9.89	1.00
ARITH. STD. DEV	0.0388	5.57	1.71	8.81	48.46	4.38	0.34
GEOM. MEAN	0.0149	4.91	0.79	10.06	47.57	9.00	0.96
GEOM. STD. DEV.	3.7915	2.32	2.81	1.80	2.07	1.60	1.34
1ST QUARTILE	0.0065	2.50	0.50	6.61	24.09	7.25	0.90
2ND QUARTILE	0.0145	5.00	0.50	8.97	42.90	9.58	1.00
3RD QUARTILE	0.0265	6.50	1.25	11.63	73.10	11.84	1.00
VOL. WGT. MEAN	0.0278	5.14	1.15	10.60	48.27	8.40	0.97

	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L
# OF SAMPLES	13	12	13
MAXIMUM	181.60	5.99	0.30
MINIMUM	12.39	0.45	0.06
RANGE	169.21	5.53	0.24
ARITH. MEAN	62.56	1.70	0.14
ARITH. STD. DEV	47.70	1.68	0.08
GEOM. MEAN	48.44	1.20	0.13
GEOM. STD. DEV.	2.13	2.29	1.64
1ST QUARTILE	25.95	0.65	0.10
2ND QUARTILE	46.55	0.81	0.10
3RD QUARTILE	67.56	2.24	0.16
VOL. WGT. MEAN	47.58	1.26	0.13

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORION/CUMULATIVE PRECIP. #31

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	12	12	12	11	12	12
MAXIMUM :	136.0	33.5	5.46	0.0741	0.0946	3.55	0.750
MINIMUM :	1.1	5.8	4.13	0.0035	0.0226	0.60	0.090
RANGE :	134.9	27.7	1.33	0.0707	0.0720	2.95	0.660
ARITH. MEAN :	62.5	15.0	4.88	0.0218	0.0457	1.52	0.290
ARITH. STD. DEV :	38.2	10.1	0.46	0.0225	0.0241	1.03	0.213
GEOM. MEAN :	43.2	12.2	4.86	0.0133	0.0407	1.24	0.225
GEOM. STD. DEV. :	3.4	1.9	1.10	2.8908	1.6433	1.94	2.131
1ST QUARTILE :	30.4	7.3	4.44	0.0045	0.0243	0.70	0.105
2ND QUARTILE :	56.0	9.3	4.92	0.0121	0.0362	1.12	0.225
3RD QUARTILE :	83.6	21.8	5.35	0.0371	0.0599	2.38	0.425
VOL. WGT. MEAN :	*******	13.3	*******	0.0183	0.0413	1.45	0.247

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	1.080	0.220	0.750	0.140	0.165	0.200	0.585
MINIMUM :	0.020	0.030	0.070	0.002	0.000	0.000	0.020
RANGE :	1.060	0.190	0.680	0.137	0.165	0.200	0.565
ARITH. MEAN :	0.212	0.097	0.322	0.034	0.032	0.069	0.247
ARITH. STD. DEV :	0.284	0.062	0.237	0.036	0.052	0.062	0.191
GEOM. MEAN :	0.128	0.079	0.245	0.023	0.033	0.059	0.170
GEOM. STD. DEV. :	2.715	2.019	2.228	2.598	4.112	3.440	2.801
1ST QUARTILE :	0.065	0.040	0.120	0.015	0.004	0.012	0.107
2ND QUARTILE :	0.120	0.085	0.255	0.020	0.012	0.055	0.173
3RD QUARTILE :	0.230	0.145	0.510	0.040	0.027	0.105	0.381
VOL. WGT. MEAN :	0.205	0.083	0.305	0.033	0.039	0.060	0.241

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORION/CUMULATIVE PRECIP. #31

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85 PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES	12	12	12	12	12	12	12
MAXIMUM	0.0440	19.00	7.00	8.86	134.10	10.11	1.00
MINIMUM	0.0005	0.50	0.10	1.44	4.33	1.38	0.20
RANGE	0.0435	18.50	6.90	7.42	129.77	8.73	0.80
ARITH. MEAN	0.0126	3.29	0.98	4.19	32.90	5.37	0.87
ARITH. STD. DEV	0.0136	5.12	1.90	2.69	35.03	2.49	0.31
GEOM. MEAN	0.0058	1.76	0.50	3.43	22.55	4.79	0.76
GEOM. STD. DEV.	4.3224	2.94	2.64	1.95	2.44	1.71	1.87
1ST QUARTILE	0.0015	0.75	0.50	1.81	13.71	3.87	1.00
2ND QUARTILE	0.0075	2.00	0.50	3.32	21.13	4.59	1.00
3RD QUARTILE	0.0215	3.00	0.50	6.03	42.00	7.55	1.00
VOL. WGT. MEAN	0.0108	3.33	0.64	3.66	33.41	5.32	0.88

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES	12	12	12
MAXIMUM	183.60	2.55	0.14
MINIMUM	11.11	0.32	0.01
RANGE	172.49	2.23	0.13
ARITH. MEAN	43.29	1.16	0.07
ARITH. STD. DEV	46.15	0.64	0.04
GEOM. MEAN	32.27	1.01	0.06
GEOM. STD. DEV.	2.06	1.73	1.99
1ST QUARTILE	22.92	0.76	0.05
2ND QUARTILE	30.69	0.90	0.05
3RD QUARTILE	40.46	1.38	0.10
VOL. WGT. MEAN	42.26	1.14	0.07

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/CUMULATIVE PRECIP. #20

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	158.0	40.5	4.52	0.0776	0.1070	5.00	0.970
MINIMUM :	37.0	17.5	4.11	0.0302	0.0524	1.30	0.260
RANGE :	121.0	23.0	0.41	0.0474	0.0546	3.70	0.710
ARITH. MEAN :	73.9	30.0	4.28	0.0542	0.0810	2.67	0.490
ARITH. STD. DEV :	31.8	7.5	0.14	0.0156	0.0174	1.08	0.213
GEOM. MEAN :	68.8	29.1	4.28	0.0519	0.0792	2.47	0.453
GEOM. STD. DEV. :	1.5	1.3	1.03	1.3646	1.2549	1.52	1.504
1ST QUARTILE :	52.0	24.6	4.16	0.0412	0.0632	1.65	0.305
2ND QUARTILE :	65.5	30.0	4.23	0.0538	0.0835	2.48	0.430
3RD QUARTILE :	81.0	34.1	4.37	0.0646	0.0926	3.30	0.535
VOL. WGT. MEAN :	********	28.6	*******	0.0511	0.0772	2.58	0.460

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	0.800	0.210	0.880	0.145	0.080	0.090	0.620
MINIMUM :	0.020	0.050	0.150	0.002	0.000	0.000	0.080
RANGE :	0.780	0.160	0.730	0.142	0.080	0.090	0.540
ARITH. MEAN :	0.200	0.126	0.379	0.033	0.021	0.041	0.298
ARITH. STD. DEV :	0.193	0.048	0.213	0.036	0.026	0.026	0.160
GEOM. MEAN :	0.145	0.118	0.335	0.022	0.042	0.050	0.260
GEOM. STD. DEV. :	2.369	1.487	1.658	2.647	3.549	1.769	1.760
1ST QUARTILE :	0.085	0.095	0.230	0.015	0.002	0.020	0.182
2ND QUARTILE :	0.160	0.115	0.345	0.020	0.008	0.032	0.267
3RD QUARTILE :	0.210	0.140	0.385	0.032	0.027	0.050	0.325
VOL. WGT. MEAN :	0.179	0.122	0.370	0.030	0.022	0.039	0.294

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/CUMULATIVE PRECIP. #20

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR MG/L	MANGANSE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L	LEAD UG/L	VANADIUM UG/L
# OF SAMPLES	13	13	12	13	13	13	13
MAXIMUM	0.0380	14.00	0.50	6.93	151.40	9.71	1.00
MINIMUM	0.0000	0.50	0.20	1.71	6.77	2.27	0.20
RANGE	0.0380	13.50	0.30	5.22	144.63	7.45	0.80
ARITH. MEAN	0.0075	2.54	0.46	4.01	30.73	5.57	0.88
ARITH. STD. DEV	0.0104	3.57	0.10	1.62	37.56	2.28	0.30
GEOM. MEAN	0.0035	1.60	0.44	3.70	21.65	5.07	0.78
GEOM. STD. DEV.	3.3257	2.42	1.34	1.54	2.15	1.62	1.83
1ST QUARTILE	0.0015	1.00	0.50	2.41	12.10	3.34	1.00
2ND QUARTILE	0.0015	1.50	0.50	3.50	19.20	5.95	1.00
3RD QUARTILE	0.0075	2.00	0.50	5.25	26.66	6.37	1.00
VOL. WGT. MEAN	0.0069	2.28	0.44	3.69	27.78	5.55	0.81

	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L
# OF SAMPLES	13	13	13
MAXIMUM	229.40	1.01	0.20
MINIMUM	11.40	0.34	0.01
RANGE	218.00	0.67	0.19
ARITH. MEAN	41.14	0.79	0.08
ARITH. STD. DEV	57.74	0.17	0.05
GEOM. MEAN	27.46	0.76	0.07
GEOM. STD. DEV.	2.18	1.32	2.03
1ST QUARTILE	15.93	0.71	0.05
2ND QUARTILE	22.79	0.80	0.05
3RD QUARTILE	33.04	0.83	0.10
VOL. WGT. MEAN	36.28	0.73	0.07

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : EAR FALL'S/CUMULATIVE PRECIP. #35

PERIOD OF REPORT : JAN 4,84 TO JAN 2,85 PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	13	9	9	13	13	13
MAXIMUM :	129.7	37.2	5.94	0.0347	0.0602	5.80	1.030
MINIMUM :	2.5	6.3	4.46	0.0011	0.0224	0.40	0.090
RANGE :	127.2	30.9	1.48	0.0335	0.0378	5.40	0.940
ARITH. MEAN :	58.6	13.3	5.04	0.0140	0.0334	1.53	0.347
ARITH. STD. DEV :	40.8	8.9	0.47	0.0125	0.0124	1.37	0.259
GEOM. MEAN :	40.2	11.3	5.02	0.0091	0.0317	1.22	0.277
GEOM. STD. DEV. :	3.0	1.7	1.10	2.9408	1.3829	1.92	1.999
1ST QUARTILE :	24.1	6.8	4.59	0.0052	0.0248	0.82	0.160
2ND QUARTILE :	46.3	10.3	5.03	0.0086	0.0285	1.13	0.245
3RD QUARTILE :	80.0	12.4	5.14	0.0144	0.0352	1.52	0.400
VOL. MGT. MEAN :	*******	10.1	*******	0.0115	0.0326	1.15	0.257

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	12	13	11	12	12	12	12
MAXIMUM :	0.760	0.730	0.730	0.105	0.090	0.210	0.600
MINIMUM :	0.000	0.030	0.130	0.000	0.000	0.000	0.001
RANGE :	0.760	0.700	0.600	0.105	0.090	0.210	0.599
ARITH. MEAN :	0.258	0.171	0.375	0.038	0.033	0.078	0.259
ARITH. STD. DEV :	0.220	0.185	0.210	0.033	0.037	0.073	0.165
GEOM. MEAN :	0.252	0.118	0.320	0.041	0.041	0.158	0.156
GEOM. STD. DEV. :	2.005	2.358	1.846	2.420	3.677	2.248	5.357
1ST QUARTILE :	0.100	0.070	0.160	0.017	0.005	0.015	0.137
2ND QUARTILE :	0.215	0.105	0.370	0.030	0.016	0.052	0.247
3RD QUARTILE :	0.325	0.165	0.460	0.057	0.075	0.125	0.356
VOL. MGT. MEAN :	0.255	0.103	0.363	0.041	0.037	0.064	0.245

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : EAR FALL'S/CUMULATIVE PRECIP. #35

PERIOD OF REPORT : JAN 4,84 TO JAN 2,85

	PHOSPHOR MG/L	MANGANSE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L	LEAD UG/L	VANADIUM UG/L
# OF SAMPLES	11	12	12	12	12	12	12
MAXIMUM	0.0330	13.00	2.00	10.26	238.80	9.07	1.00
MINIMUM	0.0050	1.00	0.20	1.44	15.67	1.37	0.20
RANGE	0.0280	12.00	1.80	8.82	223.13	7.70	0.80
ARITH. MEAN	0.0160	4.67	0.61	5.19	91.93	4.81	0.67
ARITH. STD. DEV	0.0101	4.05	0.45	3.04	79.57	2.37	0.31
GEOM. MEAN	0.0132	3.41	0.53	4.27	62.75	4.23	0.76
GEOM. STD. DEV.	1.9553	2.25	1.65	2.01	2.56	1.74	1.87
1ST QUARTILE	0.0065	2.00	0.50	2.59	32.77	3.07	1.00
2ND QUARTILE	0.0125	2.50	0.50	5.11	48.48	4.49	1.00
3RD QUARTILE	0.0225	7.00	0.50	7.93	158.50	6.41	1.00
VOL. WGT. MEAN	0.0153	5.07	0.51	4.47	93.40	4.94	0.88

	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L
# OF SAMPLES	12	11	12
MAXIMUM	345.20	2.64	0.50
MINIMUM	10.41	0.74	0.05
RANGE	334.79	1.90	0.45
ARITH. MEAN	107.04	1.54	0.14
ARITH. STD. DEV	107.81	0.63	0.13
GEOM. MEAN	63.76	1.41	0.11
GEOM. STD. DEV.	3.05	1.54	2.13
1ST QUARTILE	27.08	0.90	0.05
2ND QUARTILE	54.19	1.42	0.10
3RD QUARTILE	195.60	2.00	0.20
VOL. WGT. MEAN	111.19	1.30	0.16

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : EXP. LAKES AREA/CUMULATIVE PRECIP. #34

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	12	9	9	12	12	12
MAXIMUM :	145.3	43.0	5.90	0.0525	0.0926	5.45	0.950
MINIMUM :	5.2	2.1	4.28	0.0013	0.0184	0.10	0.000
RANGE :	140.1	40.9	1.62	0.0512	0.0742	5.35	0.950
ARITH. MEAN :	46.1	16.5	5.04	0.0181	0.0395	1.97	0.414
ARITH. STD. DEV :	37.3	11.3	0.60	0.0201	0.0234	1.44	0.279
GEOM. MEAN :	34.2	13.1	5.01	0.0090	0.0347	1.41	0.424
GEOM. STD. DEV. :	2.3	2.2	1.13	3.9378	1.6541	2.80	1.708
1ST QUARTILE :	24.1	9.6	4.53	0.0026	0.0247	1.05	0.235
2ND QUARTILE :	29.6	12.3	4.81	0.0100	0.0296	1.60	0.340
3RD QUARTILE :	52.7	22.7	5.39	0.0164	0.0464	2.77	0.610
VOL. WGT. MEAN :	*******	11.4	*******	0.0096	0.0304	1.38	0.278

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	10	12	11	10	12	12	11
MAXIMUM :	0.680	0.590	1.350	0.120	0.210	0.340	0.780
MINIMUM :	0.040	0.010	0.070	0.005	0.002	0.000	0.025
RANGE :	0.640	0.580	1.280	0.115	0.207	0.340	0.755
ARITH. MEAN :	0.342	0.174	0.640	0.059	0.059	0.106	0.411
ARITH. STD. DEV :	0.217	0.171	0.406	0.038	0.062	0.117	0.280
GEOM. MEAN :	0.260	0.111	0.474	0.043	0.030	0.077	0.239
GEOM. STD. DEV. :	2.450	2.930	2.572	2.694	3.924	3.653	4.053
1ST QUARTILE :	0.130	0.070	0.170	0.023	0.014	0.017	0.030
2ND QUARTILE :	0.315	0.105	0.645	0.060	0.035	0.052	0.462
3RD QUARTILE :	0.445	0.250	0.855	0.082	0.097	0.157	0.602
VOL. WGT. MEAN :	0.258	0.122	0.517	0.048	0.053	0.067	0.332

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : EXP. LAKES AREA/CUMULATIVE PRECIP. 834

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR MG/L	MANGANSE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L	LEAD UG/L	VANADIUM UG/L
# OF SAMPLES	11	8	11	11	10	11	11
MAXIMUM	0.0810	15.00	4.00	15.67	279.80	16.89	2.00
MINIMUM	0.0015	0.50	0.10	1.35	21.06	0.85	0.20
RANGE	0.0795	14.50	3.90	14.32	258.74	16.04	1.80
ARITH. MEAN	0.0254	4.87	0.88	7.55	77.71	8.89	0.95
ARITH. STD. DEV	0.0214	4.63	1.07	5.42	80.21	5.37	0.47
GEOM. MEAN	0.0177	2.94	0.60	5.59	55.41	6.42	0.79
GEOM. STD. DEV.	2.7962	3.39	2.40	2.38	2.24	2.80	2.04
1ST QUARTILE	0.0100	1.25	0.50	2.36	28.87	2.40	0.60
2ND QUARTILE	0.0205	5.00	0.50	4.23	51.10	8.63	1.00
3RD QUARTILE	0.0325	5.50	0.75	12.26	66.49	12.66	1.00
VOL. WGT. MEAN	0.0207	3.84	0.70	5.41	60.30	7.21	0.98

	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L
# OF SAMPLES	10	11	9
MAXIMUM	351.70	3.40	0.20
MINIMUM	30.53	0.28	0.05
RANGE	321.17	3.12	0.15
ARITH. MEAN	99.17	1.48	0.13
ARITH. STD. DEV	93.53	0.92	0.06
GEOM. MEAN	77.75	1.21	0.11
GEOM. STD. DEV.	1.94	2.04	1.74
1ST QUARTILE	51.41	0.71	0.07
2ND QUARTILE	73.07	1.08	0.10
3RD QUARTILE	77.48	2.11	0.18
VOL. WGT. MEAN	80.00	1.23	0.11

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GERALDTON/CUMULATIVE PRECIP. #30

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85 PAGE : 1

	PRECIP. (1) MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	13	11	11	12	13	13
MAXIMUM :	183.6	33.0	5.33	0.0407	0.0650	3.70	0.490
MINIMUM :	2.3	4.0	4.39	0.0047	0.0202	0.50	0.000
RANGE :	181.3	29.0	0.94	0.0361	0.0448	3.20	0.490
ARITH. MEAN :	67.2	12.5	4.89	0.0159	0.0394	1.35	0.169
ARITH. STD. DEV :	51.8	8.3	0.30	0.0117	0.0154	0.87	0.164
GEOM. MEAN :	48.2	10.5	4.89	0.0127	0.0369	1.15	0.250
GEOM. STD. DEV. :	3.1	1.8	1.06	2.0132	1.4550	1.78	2.403
1ST QUARTILE :	23.3	7.2	4.59	0.0059	0.0297	0.70	0.010
2ND QUARTILE :	52.8	8.4	4.86	0.0122	0.0346	1.05	0.145
3RD QUARTILE :	82.3	12.8	5.05	0.0169	0.0499	1.52	0.180
VOL. WGT. MEAN :	*******	10.8	*******	0.0130	0.0376	1.24	0.158

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	11	12	11	11	11	11	11
MAXIMUM :	0.240	0.890	1.040	0.040	0.070	0.195	0.270
MINIMUM :	0.010	0.040	0.060	0.000	0.000	0.000	0.000
RANGE :	0.230	0.850	0.980	0.040	0.070	0.195	0.270
ARITH. MEAN :	0.125	0.160	0.303	0.020	0.025	0.055	0.133
ARITH. STD. DEV :	0.076	0.236	0.265	0.011	0.027	0.069	0.102
GEOM. MEAN :	0.095	0.098	0.232	0.029	0.038	0.055	0.118
GEOM. STD. DEV. :	2.541	2.394	2.132	1.688	3.533	4.685	3.392
1ST QUARTILE :	0.050	0.060	0.125	0.012	0.001	0.001	0.020
2ND QUARTILE :	0.115	0.075	0.250	0.017	0.014	0.012	0.125
3RD QUARTILE :	0.180	0.145	0.325	0.025	0.037	0.108	0.225
VOL. WGT. MEAN :	0.128	0.076	0.295	0.020	0.039	0.029	0.130

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GERALDTON/CUMULATIVE PRECIP. #30

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES	11	12	11	12	12	12	12
MAXIMUM	0.0470	6.00	0.50	15.96	261.10	7.47	1.00
MINIMUM	0.0015	0.50	0.10	1.28	5.00	1.05	0.20
RANGE	0.0455	5.50	0.40	14.68	256.10	6.42	0.80
ARITH. MEAN	0.0129	1.79	0.43	6.16	37.43	3.50	0.87
ARITH. STD. DEV	0.0125	1.75	0.16	4.34	71.13	2.25	0.31
GEOM. MEAN	0.0091	1.20	0.37	4.84	17.96	2.87	0.76
GEOM. STD. DEV.	2.4332	2.51	1.92	2.15	2.90	1.97	1.87
1ST QUARTILE	0.0050	0.50	0.30	3.47	7.71	1.63	1.00
2ND QUARTILE	0.0090	1.00	0.50	5.39	15.87	2.87	1.00
3RD QUARTILE	0.0145	2.50	0.50	7.11	29.45	4.87	1.00
VOL. WGT. MEAN	0.0099	1.85	0.43	5.31	33.78	2.88	0.87

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES	11	12	12
MAXIMUM	45.54	3.05	0.30
MINIMUM	6.93	0.20	0.01
RANGE	38.61	2.85	0.29
ARITH. MEAN	26.85	1.30	0.10
ARITH. STD. DEV	14.90	0.87	0.08
GEOM. MEAN	21.88	1.05	0.08
GEOM. STD. DEV.	2.10	2.08	2.34
1ST QUARTILE	7.70	0.78	0.05
2ND QUARTILE	26.22	0.91	0.09
3RD QUARTILE	39.26	1.92	0.10
VOL. WGT. MEAN	19.56	1.05	0.10

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GOLDEN LAKE/CUMULATIVE PRECIP. #17

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	13	12	12	12	13	13
MAXIMUM :	112.9	44.0	4.53	0.0912	0.1290	5.50	1.190
MINIMUM :	24.3	15.8	4.04	0.0295	0.0360	0.95	0.260
RANGE :	88.6	28.2	0.49	0.0617	0.0930	4.55	0.930
ARITH. MEAN :	62.0	27.2	4.32	0.0519	0.0749	2.62	0.467
ARITH. STD. DEV :	24.7	9.3	0.17	0.0210	0.0234	1.44	0.251
GEOM. MEAN :	57.5	25.7	4.31	0.0482	0.0717	2.26	0.424
GEOM. STD. DEV. :	1.5	1.4	1.04	1.4854	1.3739	1.77	1.534
1ST QUARTILE :	43.5	20.3	4.17	0.0349	0.0597	1.50	0.310
2ND QUARTILE :	59.4	22.7	4.34	0.0460	0.0713	1.95	0.375
3RD QUARTILE :	68.5	33.3	4.46	0.0681	0.0893	3.60	0.490
VOL. MGT. MEAN :	*******	26.1	*******	0.0494	0.0717	2.61	0.412

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	13	13	12	13	12	12	13
MAXIMUM :	0.650	0.420	2.030	0.130	0.240	0.145	1.400
MINIMUM :	0.020	0.050	0.090	0.002	0.000	0.000	0.040
RANGE :	0.630	0.370	1.940	0.127	0.240	0.145	1.360
ARITH. MEAN :	0.220	0.165	0.582	0.041	0.039	0.052	0.355
ARITH. STD. DEV :	0.171	0.113	0.569	0.035	0.069	0.046	0.394
GEOM. MEAN :	0.164	0.137	0.389	0.027	0.154	0.053	0.222
GEOM. STD. DEV. :	2.403	1.866	2.577	3.021	3.720	2.545	2.690
1ST QUARTILE :	0.110	0.085	0.185	0.015	0.000	0.025	0.117
2ND QUARTILE :	0.170	0.125	0.425	0.032	0.017	0.040	0.152
3RD QUARTILE :	0.250	0.180	0.690	0.052	0.035	0.072	0.377
VOL. MGT. MEAN :	0.196	0.144	0.569	0.036	0.034	0.041	0.341

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GOLDEN LAKE/CUMULATIVE PRECIP. #17

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR MG/L	MANGANSE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L	LEAD UG/L	VANADIUM UG/L
# OF SAMPLES	12	12	12	12	12	12	12
MAXIMUM	0.0600	10.00	0.50	14.66	92.96	10.45	1.00
MINIMUM	0.0010	1.00	0.10	1.36	8.60	3.18	0.20
RANGE	0.0790	9.00	0.40	13.30	84.36	7.27	0.80
ARITH. MEAN	0.0189	3.25	0.42	5.09	30.55	6.62	0.80
ARITH. STD. DEV	0.0227	3.22	0.15	3.39	25.72	2.28	0.36
GEOM. MEAN	0.0103	2.35	0.38	4.33	24.32	6.23	0.67
GEOM. STD. DEV.	3.3949	2.17	1.86	1.80	1.92	1.46	2.07
1ST QUARTILE	0.0060	1.50	0.45	3.14	16.94	4.61	0.60
2ND QUARTILE	0.0105	2.00	0.50	4.68	22.06	6.67	1.00
3RD QUARTILE	0.0245	3.00	0.50	5.75	27.09	8.20	1.00
VOL. WGT. MEAN	0.0204	3.04	0.43	4.64	29.87	6.33	0.78

	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L
# OF SAMPLES	12	12	12
MAXIMUM	93.80	7.33	0.30
MINIMUM	13.79	0.44	0.01
RANGE	80.01	6.90	0.29
ARITH. MEAN	35.46	1.60	0.09
ARITH. STD. DEV	26.79	1.89	0.08
GEOM. MEAN	28.27	1.12	0.06
GEOM. STD. DEV.	1.97	2.17	2.48
1ST QUARTILE	17.01	0.75	0.04
2ND QUARTILE	23.89	0.87	0.10
3RD QUARTILE	47.65	1.54	0.10
VOL. WGT. MEAN	32.09	1.38	0.09

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GONGANDA/CUMULATIVE PRECIP. #25

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	11	10	10	10	11	11
MAXIMUM :	141.0	48.5	4.90	0.0891	0.1310	4.95	0.620
MINIMUM :	12.2	9.5	4.05	0.0126	0.0222	0.95	0.070
RANGE :	128.8	39.0	0.85	0.0765	0.1088	4.00	0.550
ARITH. MEAN :	60.6	24.3	4.40	0.0447	0.0695	2.43	0.335
ARITH. STD. DEV :	36.9	11.2	0.24	0.0214	0.0325	1.31	0.201
GEOM. MEAN :	49.3	21.9	4.40	0.0396	0.0619	2.13	0.269
GEOM. STD. DEV. :	2.1	1.6	1.06	1.7387	1.7054	1.72	2.141
1ST QUARTILE :	31.2	14.3	4.24	0.0271	0.0388	1.22	0.110
2ND QUARTILE :	54.1	21.1	4.34	0.0457	0.0726	2.27	0.255
3RD QUARTILE :	73.8	30.1	4.47	0.0538	0.0840	2.90	0.530
VOL. WGT. MEAN :	*******	21.0	*******	0.0374	0.0540	2.44	0.261

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	10	10	8	10	9	9	11
MAXIMUM :	0.500	0.330	0.900	0.085	0.095	0.230	0.740
MINIMUM :	0.050	0.050	0.120	0.000	0.002	0.005	0.000
RANGE :	0.450	0.280	0.780	0.085	0.093	0.225	0.740
ARITH. MEAN :	0.210	0.164	0.385	0.034	0.034	0.071	0.231
ARITH. STD. DEV :	0.167	0.080	0.262	0.034	0.036	0.066	0.243
GEOM. MEAN :	0.157	0.147	0.313	0.035	0.015	0.047	0.111
GEOM. STD. DEV. :	2.236	1.671	2.020	2.930	4.550	2.927	8.843
1ST QUARTILE :	0.075	0.110	0.195	0.006	0.004	0.025	0.002
2ND QUARTILE :	0.140	0.155	0.300	0.022	0.007	0.060	0.135
3RD QUARTILE :	0.295	0.170	0.535	0.055	0.055	0.075	0.313
VOL. WGT. MEAN :	0.227	0.151	0.404	0.038	0.046	0.054	0.329

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GOGANDA/CUMULATIVE PRECIP. #25

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	9	10	10	9	10	10	10
MAXIMUM :	0.1390	9.00	5.00	40.72	226.60	12.91	1.00
MINIMUM :	0.0020	1.00	0.40	2.42	10.06	3.27	0.20
RANGE :	0.1370	8.00	4.60	38.30	216.54	9.64	0.80
ARITH. MEAN :	0.0311	3.80	1.69	9.51	65.80	8.26	0.92
ARITH. STD. DEV :	0.0427	3.29	1.85	12.05	72.04	3.65	0.25
GEOM. MEAN :	0.0150	2.59	1.02	6.24	39.96	7.49	0.85
GEOM. STD. DEV. :	3.9340	2.57	2.78	2.38	2.81	1.62	1.66
1ST QUARTILE :	0.0065	1.00	0.50	3.22	18.66	5.18	1.00
2ND QUARTILE :	0.0165	2.50	0.50	5.06	25.99	6.77	1.00
3RD QUARTILE :	0.0230	6.00	2.00	7.25	85.56	11.72	1.00
VOL. WGT. MEAN :	0.0335	4.21	1.84	5.77	65.82	8.00	0.92

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	10	9	9
MAXIMUM :	336.90	7.17	0.30
MINIMUM :	14.33	0.64	0.05
RANGE :	322.57	6.53	0.25
ARITH. MEAN :	84.44	2.85	0.12
ARITH. STD. DEV :	93.96	2.65	0.10
GEOM. MEAN :	56.47	1.92	0.10
GEOM. STD. DEV. :	2.34	2.57	2.02
1ST QUARTILE :	32.80	0.76	0.05
2ND QUARTILE :	52.46	1.57	0.08
3RD QUARTILE :	75.20	3.13	0.10
VOL. WGT. MEAN :	73.19	1.74	0.10

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HURON PARK/CUMULATIVE PRECIP. #06

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	11	8	8	10	11	11
MAXIMUM :	175.8	61.2	4.85	0.0813	0.1158	6.85	1.950
MINIMUM :	24.0	18.6	4.09	0.0141	0.0172	2.10	0.410
RANGE :	151.8	42.6	0.76	0.0672	0.0986	4.75	1.540
ARITH. MEAN :	75.4	37.5	4.40	0.0461	0.0646	4.32	0.798
ARITH. STD. DEV :	44.1	13.3	0.27	0.0239	0.0347	1.36	0.439
GEOM. MEAN :	65.5	35.3	4.40	0.0396	0.0547	4.11	0.719
GEOM. STD. DEV. :	1.7	1.5	1.06	1.8766	1.9178	1.41	1.570
1ST QUARTILE :	42.8	25.1	4.22	0.0227	0.0307	3.15	0.500
2ND QUARTILE :	66.8	33.6	4.28	0.0525	0.0657	4.07	0.590
3RD QUARTILE :	77.6	45.9	4.64	0.0613	0.0907	5.25	0.960
VOL. WGT. MEAN :	*******	34.2	*******	0.0400	0.0590	4.15	0.682

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	9	10	9	9	9	10	9
MAXIMUM :	2.170	0.470	1.310	0.260	0.045	0.235	1.080
MINIMUM :	0.250	0.110	0.300	0.035	0.002	0.025	0.106
RANGE :	1.920	0.360	1.010	0.225	0.043	0.210	0.974
ARITH. MEAN :	0.872	0.231	0.582	0.138	0.026	0.109	0.563
ARITH. STD. DEV :	0.635	0.113	0.305	0.094	0.015	0.079	0.298
GEOM. MEAN :	0.682	0.210	0.529	0.106	0.019	0.085	0.478
GEOM. STD. DEV. :	2.137	1.566	1.555	2.269	2.567	2.149	1.972
1ST QUARTILE :	0.320	0.145	0.365	0.045	0.014	0.047	0.387
2ND QUARTILE :	0.585	0.195	0.507	0.092	0.022	0.070	0.470
3RD QUARTILE :	1.175	0.240	0.565	0.217	0.035	0.162	0.622
VOL. WGT. MEAN :	0.804	0.208	0.517	0.134	0.026	0.089	0.496

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HURON PARK/CUMULATIVE PRECIP. #06

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85 PAGE : 2

	PHOSPHOR MG/L	MANGANSE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L	LEAD UG/L	VANADIUM UG/L
# OF SAMPLES :	9	10	10	10	10	9	10
MAXIMUM :	0.0260	10.00	5.00	61.30	191.90	19.11	1.00
MINIMUM :	0.0000	1.00	0.10	2.82	12.88	3.20	0.20
RANGE :	0.0260	9.00	4.90	58.48	179.02	15.91	0.80
ARITH. MEAN :	0.0117	4.40	1.02	16.27	72.89	7.37	0.80
ARITH. STD. DEV :	0.0093	2.67	1.46	18.94	55.78	5.17	0.33
GEOM. MEAN :	0.0168	3.68	0.55	10.22	55.22	6.25	0.71
GEOM. STD. DEV. :	2.5814	1.94	3.19	2.59	2.27	1.77	1.80
1ST QUARTILE :	0.0040	2.50	0.30	5.77	30.41	4.27	0.40
2ND QUARTILE :	0.0080	3.50	0.50	7.39	51.19	5.13	1.00
3RD QUARTILE :	0.0160	5.50	0.75	13.97	93.10	6.41	1.00
VOL. WGT. MEAN :	0.0102	4.20	0.71	11.50	71.31	6.35	0.79

	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L
# OF SAMPLES :	10	10	10
MAXIMUM :	331.30	5.11	0.40
MINIMUM :	17.18	0.33	0.05
RANGE :	314.12	4.78	0.35
ARITH. MEAN :	87.23	1.57	0.14
ARITH. STD. DEV :	91.83	1.47	0.12
GEOM. MEAN :	61.40	1.11	0.11
GEOM. STD. DEV. :	2.32	2.39	2.05
1ST QUARTILE :	33.00	0.47	0.05
2ND QUARTILE :	52.68	1.06	0.10
3RD QUARTILE :	102.32	1.95	0.13
VOL. WGT. MEAN :	69.51	1.23	0.12

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : KILLARNEY/CUMULATIVE PRECIP. #23

PERIOD OF REPORT : FEB 28,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	7	7	6	6	6	7	7
MAXIMUM :	124.8	50.0	4.50	0.0912	0.1340	4.85	1.430
MINIMUM :	50.9	18.8	4.04	0.0316	0.0410	1.60	0.180
RANGE :	73.1	31.2	0.46	0.0596	0.0930	3.25	1.250
ARITH. MEAN :	84.2	32.3	4.26	0.0593	0.0843	3.21	0.634
ARITH. STD. DEV :	28.5	11.4	0.18	0.0233	0.0332	1.35	0.412
GEOM. MEAN :	80.4	30.7	4.25	0.0554	0.0786	2.96	0.528
GEOM. STD. DEV. :	1.4	1.4	1.04	1.5053	1.5296	1.56	1.954
1ST QUARTILE :	57.9	20.1	4.06	0.0353	0.0492	1.80	0.265
2ND QUARTILE :	72.1	29.0	4.25	0.0562	0.0842	2.57	0.475
3RD QUARTILE :	102.8	39.1	4.34	0.0694	0.0960	4.45	0.765
VOL. WGT. MEAN :	*******	31.5	*******	0.0575	0.0846	3.06	0.610

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	6	7	6	6	6	7	6
MAXIMUM :	0.260	0.220	0.770	0.070	0.040	0.090	0.605
MINIMUM :	0.100	0.110	0.150	0.008	0.000	0.020	0.130
RANGE :	0.160	0.110	0.620	0.062	0.040	0.070	0.475
ARITH. MEAN :	0.203	0.157	0.393	0.036	0.020	0.054	0.318
ARITH. STD. DEV :	0.073	0.049	0.213	0.026	0.016	0.024	0.165
GEOM. MEAN :	0.190	0.151	0.347	0.027	0.037	0.048	0.283
GEOM. STD. DEV. :	1.538	1.362	1.745	2.538	2.568	1.681	1.707
1ST QUARTILE :	0.110	0.110	0.195	0.009	0.004	0.025	0.157
2ND QUARTILE :	0.245	0.130	0.390	0.035	0.017	0.052	0.325
3RD QUARTILE :	0.250	0.200	0.420	0.050	0.030	0.065	0.333
VOL. WGT. MEAN :	0.182	0.154	0.385	0.029	0.016	0.052	0.309

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : KILLARNEY/CUMULATIVE PRECIP. #23

PERIOD OF REPORT : FEB 28,84 TO JAN 2,85

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	6	7	7	6	6	6	7
MAXIMUM :	0.0090	5.00	1.40	15.16	81.05	9.27	1.00
MINIMUM :	0.0015	1.00	0.50	3.73	16.02	3.47	0.20
RANGE :	0.0075	4.00	0.90	11.43	65.03	5.80	0.80
ARITH. MEAN :	0.0061	2.57	0.74	7.54	43.19	6.53	0.77
ARITH. STD. DEV :	0.0027	1.51	0.42	4.00	27.30	2.23	0.39
GEOM. MEAN :	0.0053	2.19	0.66	6.83	35.51	6.18	0.63
GEOM. STD. DEV. :	1.9234	1.88	1.62	1.60	2.04	1.46	2.19
1ST QUARTILE :	0.0032	1.00	0.50	4.62	16.05	3.99	0.20
2ND QUARTILE :	0.0065	2.00	0.50	6.62	40.25	6.83	1.00
3RD QUARTILE :	0.0075	3.50	0.90	7.57	59.06	7.82	1.00
VOL. MGT. MEAN :	0.0057	2.43	0.80	7.55	42.48	6.49	0.72

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	6	6	7
MAXIMUM :	60.03	2.37	0.20
MINIMUM :	21.02	1.08	0.03
RANGE :	39.01	1.29	0.17
ARITH. MEAN :	36.99	1.61	0.10
ARITH. STD. DEV :	15.73	0.50	0.05
GEOM. MEAN :	34.25	1.55	0.09
GEOM. STD. DEV. :	1.54	1.36	1.86
1ST QUARTILE :	22.34	1.14	0.04
2ND QUARTILE :	35.43	1.56	0.10
3RD QUARTILE :	45.65	1.86	0.11
VOL. MGT. MEAN :	36.14	1.62	0.09

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/CUMULATIVE PRECIP. #33

PERIOD OF REPORT : JAN 3,84 TO NOV 6,84

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	11	10	6	6	10	10	10
MAXIMUM :	118.4	47.7	5.15	0.0891	0.1302	3.15	1.170
MINIMUM :	0.5	5.8	4.05	0.0071	0.0218	0.80	0.160
RANGE :	117.9	41.9	1.10	0.0820	0.1084	2.35	1.010
ARITH. MEAN :	44.4	15.7	4.62	0.0332	0.0464	1.47	0.375
ARITH. STD. DEV :	35.0	12.0	0.39	0.0300	0.0318	0.72	0.300
GEOM. MEAN :	25.4	13.2	4.61	0.0238	0.0403	1.35	0.308
GEOM. STD. DEV. :	4.6	1.8	1.09	2.4719	1.6783	1.55	1.846
1ST QUARTILE :	10.1	8.8	4.23	0.0097	0.0277	0.85	0.170
2ND QUARTILE :	40.0	11.9	4.60	0.0262	0.0354	1.32	0.310
3RD QUARTILE :	56.2	16.3	4.83	0.0363	0.0481	1.63	0.395
VOL. WGT. MEAN :	********	11.7	*******	0.0167	0.0357	1.35	0.279

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	7	10	8	9	9	8	9
MAXIMUM :	0.240	0.910	0.810	0.130	0.110	0.160	0.470
MINIMUM :	0.100	0.030	0.180	0.020	0.005	0.000	0.008
RANGE :	0.140	0.880	0.630	0.110	0.105	0.160	0.462
ARITH. MEAN :	0.183	0.177	0.452	0.042	0.047	0.068	0.240
ARITH. STD. DEV :	0.051	0.264	0.242	0.034	0.037	0.059	0.131
GEOM. MEAN :	0.176	0.102	0.395	0.035	0.032	0.079	0.170
GEOM. STD. DEV. :	1.376	2.671	1.771	1.804	2.786	2.862	3.381
1ST QUARTILE :	0.115	0.045	0.250	0.020	0.015	0.019	0.147
2ND QUARTILE :	0.190	0.090	0.380	0.032	0.035	0.060	0.260
3RD QUARTILE :	0.215	0.145	0.685	0.040	0.055	0.115	0.276
VOL. WGT. MEAN :	0.199	0.088	0.421	0.046	0.055	0.050	0.266

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/CUMULATIVE PRECIP. 833

PERIOD OF REPORT : JAN 3,84 TO NOV 6,84

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	8	9	9	8	8	9	9
MAXIMUM :	0.0340	16.00	1.00	8.29	183.00	9.02	1.00
MINIMUM :	0.0020	2.00	0.15	1.40	24.46	1.91	0.20
RANGE :	0.0320	14.00	0.85	6.90	158.54	7.11	0.80
ARITH. MEAN :	0.0137	5.33	0.49	4.73	67.87	4.32	0.82
ARITH. STD. DEV :	0.0120	4.33	0.23	2.10	58.37	2.17	0.35
GEOM. MEAN :	0.0095	4.30	0.45	4.25	50.71	3.89	0.70
GEOM. STD. DEV. :	2.6254	1.93	1.66	1.71	2.20	1.62	2.03
1ST QUARTILE :	0.0055	2.50	0.40	3.67	28.54	2.55	0.60
2ND QUARTILE :	0.0075	4.00	0.50	4.31	32.52	3.80	1.00
3RD QUARTILE :	0.0240	5.00	0.50	6.09	106.69	4.81	1.00
VOL. WGT. MEAN :	0.0114	5.86	0.45	3.96	86.40	5.08	0.82

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	6	9	9
MAXIMUM :	194.70	3.81	0.30
MINIMUM :	29.83	0.28	0.05
RANGE :	164.87	3.53	0.25
ARITH. MEAN :	64.71	1.63	0.13
ARITH. STD. DEV :	64.07	1.08	0.11
GEOM. MEAN :	49.97	1.27	0.10
GEOM. STD. DEV. :	2.00	2.27	2.18
1ST QUARTILE :	31.06	0.69	0.05
2ND QUARTILE :	41.49	1.50	0.06
3RD QUARTILE :	46.44	1.91	0.15
VOL. WGT. MEAN :	89.61	1.81	0.11

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HATTAWA/CUMULATIVE PRECIP. #22

PERIOD OF REPORT : JAN 4,84 TO JAN 2,85 PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	12	12	12	12	11	12	12
MAXIMUM :	145.0	53.5	4.63	0.1023	0.1452	4.30	1.400
MINIMUM :	17.7	12.4	3.99	0.0234	0.0472	0.85	0.150
RANGE :	127.3	41.1	0.64	0.0789	0.0980	3.45	1.250
ARITH. MEAN :	73.7	28.0	4.34	0.0512	0.0806	2.52	0.470
ARITH. STD. DEV :	35.6	12.0	0.21	0.0252	0.0264	1.00	0.338
GEOM. MEAN :	64.8	25.7	4.33	0.0460	0.0772	2.30	0.393
GEOM. STD. DEV. :	1.8	1.6	1.05	1.6271	1.3522	1.63	1.823
1ST QUARTILE :	44.8	18.6	4.13	0.0306	0.0615	2.20	0.285
2ND QUARTILE :	75.5	27.5	4.35	0.0447	0.0708	2.43	0.375
3RD QUARTILE :	96.0	36.4	4.51	0.0733	0.0925	3.30	0.530
VOL. MGT. MEAN :	*******	25.4	*******	0.0480	0.0756	2.48	0.378

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	12	11	12	12	12	11	12
MAXIMUM :	0.490	0.340	0.760	0.105	0.210	0.245	0.795
MINIMUM :	0.015	0.030	0.070	0.005	0.002	0.000	0.030
RANGE :	0.475	0.310	0.690	0.100	0.207	0.245	0.765
ARITH. MEAN :	0.181	0.127	0.415	0.030	0.056	0.058	0.273
ARITH. STD. DEV :	0.129	0.085	0.214	0.027	0.065	0.067	0.204
GEOM. MEAN :	0.138	0.105	0.347	0.023	0.028	0.061	0.197
GEOM. STD. DEV. :	2.425	1.928	2.023	2.214	4.036	2.197	2.674
1ST QUARTILE :	0.115	0.065	0.270	0.015	0.017	0.020	0.151
2ND QUARTILE :	0.145	0.095	0.385	0.020	0.025	0.032	0.272
3RD QUARTILE :	0.220	0.155	0.600	0.037	0.067	0.070	0.317
VOL. MGT. MEAN :	0.155	0.109	0.409	0.027	0.051	0.045	0.254

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HATTAWA/CUMULATIVE PRECIP. #22

PERIOD OF REPORT : JAN 4,84 TO JAN 2,85 PAGE : 2

	PHOSPHOR MG/L	MANGANSE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L	LEAD UG/L	VANADIUM UG/L
# OF SAMPLES	12	11	11	11	10	11	11
MAXIMUM	0.0600	15.00	5.00	8.44	151.70	11.37	1.00
MINIMUM	0.0010	1.00	0.20	1.68	12.35	2.23	0.20
RANGE	0.0590	14.00	4.80	6.77	139.35	9.13	0.80
ARITH. MEAN	0.0132	4.09	0.88	4.59	35.60	5.81	0.93
ARITH. STD. DEV	0.0166	4.99	1.37	2.10	41.34	3.00	0.24
GEOM. MEAN	0.0075	2.51	0.57	4.15	26.37	5.11	0.86
GEOM. STD. DEV.	3.0913	2.57	2.17	1.62	1.98	1.72	1.62
1ST QUARTILE	0.0050	1.00	0.50	2.86	18.10	3.03	1.00
2ND QUARTILE	0.0075	2.00	0.50	3.91	23.12	4.40	1.00
3RD QUARTILE	0.0140	3.00	0.50	5.80	27.74	7.96	1.00
VOL. WGT. MEAN	0.0108	3.14	0.75	4.28	28.57	5.62	0.91

	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L
# OF SAMPLES	10	11	11
MAXIMUM	142.10	1.86	0.10
MINIMUM	13.82	0.15	0.01
RANGE	128.28	1.71	0.09
ARITH. MEAN	35.37	0.98	0.07
ARITH. STD. DEV	38.19	0.50	0.03
GEOM. MEAN	27.07	0.83	0.06
GEOM. STD. DEV.	1.92	2.00	1.98
1ST QUARTILE	19.19	0.64	0.05
2ND QUARTILE	21.81	0.80	0.05
3RD QUARTILE	29.53	1.38	0.10
VOL. WGT. MEAN	28.29	0.88	0.07

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MCKELLAR/CUMULATIVE PRECIP. #21

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	13	12	12	13	13	13
MAXIMUM :	165.0	49.0	4.56	0.1000	0.1252	5.75	1.200
MINIMUM :	22.1	4.5	4.00	0.0275	0.0220	0.15	0.040
RANGE :	142.9	44.5	0.56	0.0725	0.1032	5.60	1.160
ARITH. MEAN :	86.8	28.3	4.31	0.0535	0.0755	2.62	0.489
ARITH. STD. DEV :	42.5	12.7	0.19	0.0237	0.0299	1.46	0.317
GEOM. MEAN :	76.1	24.7	4.31	0.0489	0.0693	2.05	0.380
GEOM. STD. DEV. :	1.8	1.9	1.05	1.5604	1.5848	2.51	2.348
1ST QUARTILE :	52.6	19.4	4.18	0.0331	0.0537	1.45	0.270
2ND QUARTILE :	76.3	26.4	4.27	0.0539	0.0693	2.45	0.375
3RD QUARTILE :	111.9	34.0	4.48	0.0663	0.0857	3.20	0.565
VOL. MGT. MEAN :	*******	27.3	*******	0.0496	0.0729	2.69	0.435

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	1.090	0.490	1.530	0.185	0.225	0.365	0.880
MINIMUM :	0.030	0.080	0.100	0.002	0.000	0.010	0.008
RANGE :	1.060	0.410	1.430	0.183	0.225	0.355	0.872
ARITH. MEAN :	0.231	0.212	0.586	0.042	0.056	0.120	0.328
ARITH. STD. DEV :	0.276	0.134	0.480	0.052	0.081	0.113	0.226
GEOM. MEAN :	0.150	0.182	0.422	0.022	0.043	0.077	0.209
GEOM. STD. DEV. :	2.529	1.749	2.408	3.496	4.880	2.863	3.718
1ST QUARTILE :	0.075	0.125	0.225	0.010	0.004	0.045	0.163
2ND QUARTILE :	0.140	0.145	0.420	0.020	0.010	0.067	0.335
3RD QUARTILE :	0.230	0.215	0.600	0.040	0.045	0.132	0.398
VOL. MGT. MEAN :	0.200	0.184	0.592	0.038	0.058	0.102	0.339

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MCKELLAR/CUMULATIVE PRECIP. #21

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES	13	13	13	13	13	13	13
MAXIMUM	0.0960	15.00	3.00	23.41	290.90	17.87	1.00
MINIMUM	0.0005	0.50	0.20	1.53	9.24	2.67	0.20
RANGE	0.0955	14.50	2.80	21.88	281.66	15.20	0.80
ARITH. MEAN	0.0200	3.15	0.77	8.21	62.21	8.34	0.88
ARITH. STD. DEV	0.0297	3.84	0.80	6.94	74.67	4.27	0.30
GEOM. MEAN	0.0072	2.03	0.57	6.08	38.65	7.41	0.78
GEOM. STD. DEV.	5.1391	2.56	2.03	2.25	2.71	1.67	1.83
1ST QUARTILE	0.0012	1.00	0.50	3.19	14.42	6.01	1.00
2ND QUARTILE	0.0080	2.00	0.50	6.62	40.35	7.24	1.00
3RD QUARTILE	0.0160	3.00	0.50	7.96	66.08	8.85	1.00
VOL. WGT. MEAN	0.0197	2.79	0.70	7.06	48.65	7.37	0.86

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES	13	13	13
MAXIMUM	351.60	4.41	1.10
MINIMUM	14.33	0.43	0.05
RANGE	337.27	3.97	1.05
ARITH. MEAN	61.28	1.62	0.21
ARITH. STD. DEV	91.31	1.26	0.32
GEOM. MEAN	35.68	1.26	0.11
GEOM. STD. DEV.	2.58	2.04	2.73
1ST QUARTILE	16.50	0.71	0.05
2ND QUARTILE	26.77	1.11	0.09
3RD QUARTILE	46.31	1.83	0.10
VOL. WGT. MEAN	45.02	1.38	0.19

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NERLIN/CUMULATIVE PRECIP. #02

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85 PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	13	12	12	11	13	13
MAXIMUM :	120.0	70.9	4.68	0.1122	0.1480	7.45	1.310
MINIMUM :	16.0	22.5	3.95	0.0209	0.0252	2.40	0.360
RANGE :	104.0	48.4	0.73	0.0913	0.1228	5.05	0.950
ARITH. MEAN :	62.0	40.4	4.27	0.0607	0.0868	4.75	0.784
ARITH. STD. DEV :	25.4	12.7	0.23	0.0289	0.0355	1.71	0.305
GEOM. MEAN :	56.7	38.6	4.26	0.0540	0.0788	4.45	0.730
GEOM. STD. DEV. :	1.6	1.4	1.05	1.6870	1.6432	1.47	1.486
1ST QUARTILE :	47.5	31.6	4.08	0.0348	0.0553	2.90	0.560
2ND QUARTILE :	55.0	39.6	4.23	0.0589	0.0863	4.68	0.645
3RD QUARTILE :	68.0	45.5	4.46	0.0834	0.1111	5.60	0.945
VOL. WGT. MEAN :	*******	38.7	*******	0.0570	0.0838	4.69	0.724

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	12	12	13	12	13	12	13
MAXIMUM :	1.840	0.450	1.130	0.370	0.185	0.365	1.050
MINIMUM :	0.180	0.170	0.200	0.020	0.002	0.005	0.160
RANGE :	1.660	0.280	0.930	0.350	0.183	0.360	0.890
ARITH. MEAN :	0.774	0.292	0.687	0.143	0.054	0.127	0.493
ARITH. STD. DEV :	0.566	0.109	0.308	0.121	0.047	0.104	0.302
GEOM. MEAN :	0.585	0.275	0.614	0.094	0.036	0.082	0.415
GEOM. STD. DEV. :	2.256	1.435	1.690	2.796	2.926	3.203	1.848
1ST QUARTILE :	0.255	0.210	0.435	0.035	0.025	0.042	0.240
2ND QUARTILE :	0.575	0.250	0.625	0.103	0.050	0.107	0.373
3RD QUARTILE :	1.130	0.425	0.875	0.227	0.055	0.180	0.615
VOL. WGT. MEAN :	0.753	0.291	0.699	0.139	0.052	0.133	0.504

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MERLIN/CUMULATIVE PRECIP. #02

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES	13	12	13	13	12	13	13
MAXIMUM	0.0780	11.00	1.00	27.34	255.90	19.92	1.00
MINIMUM	0.0026	0.50	0.20	4.65	24.12	5.34	0.20
RANGE	0.0760	10.50	0.80	22.69	231.78	14.58	0.80
ARITH. MEAN	0.0207	4.12	0.50	13.48	74.80	10.98	0.82
ARITH. STD. DEV	0.0253	2.97	0.18	7.65	67.32	5.08	0.35
GEOM. MEAN	0.0116	3.20	0.47	11.69	57.31	9.97	0.69
GEOM. STD. DEV.	3.0486	2.24	1.43	1.74	2.04	1.58	2.03
1ST QUARTILE	0.0060	2.00	0.50	8.10	33.01	7.01	0.60
2ND QUARTILE	0.0110	3.00	0.50	9.73	45.99	8.82	1.00
3RD QUARTILE	0.0165	5.50	0.50	17.10	86.85	13.94	1.00
VOL. WGT. MEAN	0.0181	4.33	0.51	12.36	74.90	10.15	0.78

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES	12	13	13
MAXIMUM	231.00	3.13	0.80
MINIMUM	25.63	0.56	0.05
RANGE	205.37	2.57	0.75
ARITH. MEAN	74.24	1.54	0.19
ARITH. STD. DEV	60.73	0.87	0.25
GEOM. MEAN	58.64	1.32	0.12
GEOM. STD. DEV.	1.97	1.79	2.31
1ST QUARTILE	34.55	0.78	0.08
2ND QUARTILE	49.03	1.21	0.10
3RD QUARTILE	91.49	2.05	0.10
VOL. WGT. MEAN	74.46	1.61	0.16

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MILTON/CUMULATIVE PRECIP. #10

PERIOD OF REPORT : JAN 3,84 TO MAR 27,84 PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	3	2	2	2	3	3	3
MAXIMUM :	69.6	36.8	4.50	0.0380	0.0680	5.50	0.750
MINIMUM :	31.7	30.1	4.42	0.0316	0.0192	1.55	0.680
RANGE :	37.9	6.7	0.08	0.0064	0.0488	3.95	0.070
ARITH. MEAN :	56.8	33.4	4.46	0.0348	0.0508	3.35	0.717
ARITH. STD. DEV :	21.7	4.7	0.06	0.0045	0.0274	2.00	0.035
GEOM. MEAN :	53.4	33.3	4.46	0.0347	0.0440	2.95	0.716
GEOM. STD. DEV. :	1.6	1.2	1.01	1.1391	2.0509	1.88	1.050
1ST QUARTILE :	*******	*******	*******	********	********	*******	********
2ND QUARTILE :	*******	*******	*******	********	********	*******	********
3RD QUARTILE :	*******	*******	*******	********	********	*******	********
VOL. WGT. MEAN :	*******	34.7	*******	0.0360	0.0475	3.75	0.709

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	2	1	3	2	3	1	3
MAXIMUM :	0.730	0.660	0.420	0.195	0.030	0.460	0.312
MINIMUM :	0.530	0.660	0.300	0.140	0.002	0.460	0.116
RANGE :	0.200	0.000	0.120	0.055	0.027	0.000	0.196
ARITH. MEAN :	0.630	********	0.357	0.167	0.014	********	0.227
ARITH. STD. DEV :	0.141	********	0.060	0.039	0.014	********	0.101
GEOM. MEAN :	0.622	********	0.353	0.165	0.009	********	0.209
GEOM. STD. DEV. :	1.254	********	1.183	1.264	3.474	********	1.686
1ST QUARTILE :	********	********	********	********	********	********	********
2ND QUARTILE :	********	********	********	********	********	********	********
3RD QUARTILE :	********	********	********	********	********	********	********
VOL. WGT. MEAN :	0.667	********	0.369	0.178	0.017	********	0.221

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MILTON/CUMULATIVE PRECIP. #10

PERIOD OF REPORT : JAN 3,84 TO MAR 27,84

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES	3	2	3	3	3	3	3
MAXIMUM	0.0190	6.00	2.00	18.49	120.80	17.44	2.00
MINIMUM	0.0120	6.00	0.50	15.22	72.83	9.85	1.00
RANGE	0.0070	0.00	1.50	3.27	47.97	7.59	1.00
ARITH. MEAN	0.0157	6.00	1.00	16.82	90.10	13.89	1.33
ARITH. STD. DEV	0.0035	0.00	0.87	1.64	26.66	3.82	0.58
GEOM. MEAN	0.0154	6.00	0.79	16.77	87.70	13.51	1.26
GEOM. STD. DEV.	1.2614	1.00	2.23	1.10	1.32	1.34	1.49
1ST QUARTILE	********	*******	*******	*******	*******	*******	*******
2ND QUARTILE	********	*******	*******	*******	*******	*******	*******
3RD QUARTILE	********	*******	*******	*******	*******	*******	*******
VOL. WGT. MEAN	0.0156	6.00	1.11	17.18	93.98	13.09	1.41

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES	3	3	3
MAXIMUM	91.30	11.98	0.10
MINIMUM	50.72	0.81	0.05
RANGE	40.58	11.17	0.05
ARITH. MEAN	64.36	4.55	0.08
ARITH. STD. DEV	23.33	6.43	0.03
GEOM. MEAN	61.83	2.04	0.08
GEOM. STD. DEV.	1.40	4.64	1.49
1ST QUARTILE	*******	*******	*******
2ND QUARTILE	*******	*******	*******
3RD QUARTILE	*******	*******	*******
VOL. WGT. MEAN	67.36	2.91	0.09

****** : INSUFFICIENT DATA OR NOT APPLICABLE

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HOOMBEAM/CUMULATIVE PRECIP. #27

PERIOD OF REPORT : FEB 28,84 TO DEC 4,84

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	10	9	8	8	9	9	9
MAXIMUM :	150.0	25.8	4.79	0.0457	0.0656	3.15	0.710
MINIMUM :	1.0	10.4	4.34	0.0162	0.0360	0.80	0.090
RANGE :	149.0	15.4	0.45	0.0295	0.0296	2.35	0.620
ARITH. MEAN :	67.0	16.7	4.66	0.0237	0.0473	2.00	0.266
ARITH. STD. DEV :	41.2	5.6	0.17	0.0111	0.0116	0.84	0.201
GEOM. MEAN :	44.1	15.9	4.66	0.0219	0.0462	1.82	0.213
GEOM. STD. DEV. :	4.1	1.4	1.04	1.4905	1.2613	1.61	1.984
1ST QUARTILE :	35.8	11.3	4.55	0.0164	0.0377	1.20	0.120
2ND QUARTILE :	65.0	14.6	4.73	0.0184	0.0421	1.80	0.165
3RD QUARTILE :	80.7	20.2	4.78	0.0291	0.0496	2.57	0.305
VOL. WGT. MEAN :	*******	16.2	*******	0.0256	0.0477	1.92	0.228

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	7	9	8	7	8	8	8
MAXIMUM :	0.770	0.230	0.760	0.125	0.215	0.105	0.425
MINIMUM :	0.070	0.010	0.110	0.005	0.000	0.005	0.050
RANGE :	0.700	0.220	0.650	0.120	0.215	0.100	0.375
ARITH. MEAN :	0.259	0.110	0.344	0.044	0.064	0.046	0.205
ARITH. STD. DEV :	0.278	0.074	0.223	0.053	0.080	0.034	0.128
GEOM. MEAN :	0.167	0.081	0.284	0.022	0.054	0.033	0.168
GEOM. STD. DEV. :	2.621	2.626	1.954	3.841	3.990	2.652	2.054
1ST QUARTILE :	0.075	0.050	0.165	0.005	0.006	0.020	0.107
2ND QUARTILE :	0.110	0.090	0.305	0.015	0.030	0.040	0.188
3RD QUARTILE :	0.335	0.130	0.470	0.072	0.113	0.070	0.287
VOL. WGT. MEAN :	0.179	0.093	0.331	0.028	0.055	0.039	0.199

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MOONBEAM/CUMULATIVE PRECIP. #27

PERIOD OF REPORT : FEB 28,84 TO DEC 4,84

	PHOSPHOR MG/L	MANGANSE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L	LEAD UG/L	VANADIUM UG/L
# OF SAMPLES	8	8	8	8	8	8	8
MAXIMUM	0.0390	14.00	0.50	8.85	260.50	8.94	1.00
MINIMUM	0.0010	0.50	0.20	1.52	5.10	3.62	0.20
RANGE	0.0380	13.50	0.30	7.33	255.40	5.31	0.80
ARITH. MEAN	0.0126	4.00	0.46	3.69	67.05	5.52	0.90
ARITH. STD. DEV	0.0124	4.46	0.11	2.63	88.37	1.82	0.28
GEOM. MEAN	0.0071	2.29	0.45	3.03	34.11	5.28	0.82
GEOM. STD. DEV.	3.7912	3.30	1.38	1.92	3.47	1.37	1.77
1ST QUARTILE	0.0035	0.75	0.50	1.84	18.58	4.10	1.00
2ND QUARTILE	0.0100	3.00	0.50	2.34	29.36	5.13	1.00
3RD QUARTILE	0.0170	5.00	0.50	5.41	87.44	6.58	1.00
VOL. WGT. MEAN	0.0130	3.19	0.47	3.03	48.36	5.29	0.93

	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L
# OF SAMPLES	8	8	8
MAXIMUM	401.90	1.44	0.11
MINIMUM	6.87	0.70	0.05
RANGE	395.03	0.74	0.06
ARITH. MEAN	81.03	1.09	0.09
ARITH. STD. DEV	131.90	0.28	0.02
GEOM. MEAN	35.16	1.06	0.09
GEOM. STD. DEV.	3.83	1.30	1.39
1ST QUARTILE	10.89	0.87	0.07
2ND QUARTILE	43.63	1.07	0.10
3RD QUARTILE	65.20	1.34	0.10
VOL. WGT. MEAN	55.64	1.07	0.09

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : OTTER ISLAND/CUMULATIVE PRECIP. 838

PERIOD OF REPORT : APR 24,84 TO NOV 6,84

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	7	7	7	7	7	7	7
MAXIMUM :	107.0	28.4	5.85	0.0407	0.0788	4.15	0.640
MINIMUM :	35.0	9.0	4.39	0.0014	0.0348	1.15	0.140
RANGE :	72.0	19.4	1.46	0.0393	0.0440	3.00	0.500
ARITH. MEAN :	80.7	17.4	4.80	0.0223	0.0518	2.23	0.311
ARITH. STD. DEV :	23.9	7.1	0.49	0.0136	0.0154	1.00	0.175
GEOM. MEAN :	76.7	16.1	4.78	0.0160	0.0499	2.06	0.274
GEOM. STD. DEV. :	1.5	1.5	1.10	3.1123	1.3352	1.53	1.716
1ST QUARTILE :	52.0	9.8	4.40	0.0081	0.0367	1.35	0.150
2ND QUARTILE :	82.5	15.3	4.65	0.0194	0.0456	1.85	0.235
3RD QUARTILE :	94.5	21.4	4.80	0.0302	0.0595	2.52	0.385
VOL. WGT. MEAN :	*******	16.7	*******	0.0220	0.0508	2.15	0.304

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	7	7	7	7	7	6	7
MAXIMUM :	0.830	0.240	0.970	0.150	0.130	0.110	0.755
MINIMUM :	0.100	0.050	0.290	0.020	0.025	0.005	0.145
RANGE :	0.730	0.190	0.680	0.130	0.105	0.105	0.610
ARITH. MEAN :	0.276	0.114	0.530	0.049	0.062	0.033	0.331
ARITH. STD. DEV :	0.256	0.079	0.267	0.045	0.038	0.040	0.204
GEOM. MEAN :	0.213	0.094	0.478	0.039	0.072	0.019	0.290
GEOM. STD. DEV. :	2.033	1.925	1.625	1.946	1.810	3.084	1.704
1ST QUARTILE :	0.115	0.050	0.295	0.022	0.035	0.006	0.170
2ND QUARTILE :	0.165	0.070	0.385	0.030	0.077	0.017	0.255
3RD QUARTILE :	0.270	0.160	0.690	0.045	0.110	0.030	0.357
VOL. WGT. MEAN :	0.248	0.120	0.539	0.046	0.087	0.032	0.316

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : OTTER ISLAND/CUMULATIVE PRECIP. #38

PERIOD OF REPORT : APR 24,84 TO NOV 6,84

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	6	7	7	6	7	7	7
MAXIMUM :	0.0280	16.00	0.50	12.50	99.35	8.92	1.00
MINIMUM :	0.0020	2.00	0.50	2.44	15.12	0.87	1.00
RANGE :	0.0260	14.00	0.00	10.06	84.23	8.05	0.00
ARITH. MEAN :	0.0113	6.57	0.50	5.03	47.64	4.61	1.00
ARITH. STD. DEV :	0.0098	4.83	0.00	3.79	34.98	2.71	0.00
GEOM. MEAN :	0.0081	5.18	0.50	4.22	38.45	3.78	1.00
GEOM. STD. DEV. :	2.5514	2.15	1.00	1.83	2.00	2.13	1.00
1ST QUARTILE :	0.0035	2.00	0.50	2.48	20.52	2.00	1.00
2ND QUARTILE :	0.0075	5.50	0.50	3.89	30.83	3.55	1.00
3RD QUARTILE :	0.0130	7.50	0.50	4.66	65.71	6.11	1.00
VOL. WGT. MEAN :	0.0114	5.99	0.50	4.78	41.00	4.74	1.00

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	7	7	7
MAXIMUM :	187.50	2.36	1.10
MINIMUM :	19.12	0.72	0.10
RANGE :	168.38	1.64	1.00
ARITH. MEAN :	71.24	1.37	0.27
ARITH. STD. DEV :	65.18	0.67	0.37
GEOM. MEAN :	51.86	1.25	0.16
GEOM. STD. DEV. :	2.29	1.58	2.54
1ST QUARTILE :	25.95	0.81	0.10
2ND QUARTILE :	36.12	1.00	0.10
3RD QUARTILE :	93.50	1.81	0.20
VOL. WGT. MEAN :	56.69	1.42	0.31

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PALMERSTON/CUMULATIVE PRECIP. 808

PERIOD OF REPORT : JAN 4,84 TO DEC 31,84

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	12	10	10	10	12	12
MAXIMUM :	150.0	59.5	4.71	0.0891	0.1102	8.90	1.150
MINIMUM :	18.8	19.4	4.05	0.0195	0.0218	1.95	0.330
RANGE :	131.2	40.1	0.66	0.0696	0.0884	6.95	0.820
ARITH. MEAN :	68.4	34.8	4.32	0.0525	0.0742	4.34	0.686
ARITH. STD. DEV :	35.4	12.7	0.20	0.0209	0.0333	2.14	0.287
GEOM. MEAN :	59.8	32.8	4.31	0.0482	0.0646	3.92	0.633
GEOM. STD. DEV. :	1.8	1.4	1.05	1.5865	1.8575	1.59	1.526
1ST QUARTILE :	42.6	22.6	4.18	0.0322	0.0362	2.82	0.485
2ND QUARTILE :	63.5	37.3	4.23	0.0582	0.0890	3.88	0.625
3RD QUARTILE :	79.0	40.1	4.41	0.0638	0.0964	5.52	0.920
VOL. WGT. MEAN :	********	31.5	*******	0.0502	0.0733	3.75	0.576

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	11	12	11	11	12	12	11
MAXIMUM :	1.800	0.490	1.900	0.490	0.140	0.325	1.450
MINIMUM :	0.130	0.100	0.400	0.030	0.000	0.005	0.294
RANGE :	1.670	0.390	1.500	0.460	0.140	0.320	1.156
ARITH. MEAN :	0.584	0.218	0.761	0.155	0.045	0.087	0.662
ARITH. STD. DEV :	0.575	0.118	0.433	0.161	0.042	0.088	0.354
GEOM. MEAN :	0.398	0.194	0.682	0.099	0.049	0.055	0.587
GEOM. STD. DEV. :	2.442	1.646	1.582	2.675	2.215	3.013	1.656
1ST QUARTILE :	0.165	0.140	0.480	0.037	0.027	0.027	0.365
2ND QUARTILE :	0.285	0.175	0.565	0.065	0.030	0.065	0.535
3RD QUARTILE :	0.690	0.265	0.875	0.207	0.045	0.112	0.870
VOL. WGT. MEAN :	0.460	0.183	0.654	0.125	0.035	0.070	0.549

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PALMERSTON/CUMULATIVE PRECIP. #08

PERIOD OF REPORT : JAN 4,84 TO DEC 31,84 PAGE : 2

	PHOSPHOR MG/L	MANGANSE ÜG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L	LEAD UG/L	VANADIUM UG/L
# OF SAMPLES :	11	9	11	11	10	11	11
MAXIMUM :	0.0560	9.00	0.50	32.88	259.10	31.92	1.00
MINIMUM :	0.0000	2.00	0.10	2.29	13.05	3.53	0.20
RANGE :	0.0560	7.00	0.40	30.59	246.05	28.39	0.80
ARITH. MEAN :	0.0185	3.56	0.43	10.87	62.22	10.67	0.78
ARITH. STD. DEV :	0.0212	2.30	0.16	9.79	72.48	9.26	0.37
GEOM. MEAN :	0.0174	3.09	0.37	7.86	42.41	8.07	0.64
GEOM. STD. DEV. :	3.1959	1.69	1.92	2.28	2.34	2.11	2.12
1ST QUARTILE :	0.0035	2.00	0.30	4.39	20.14	4.41	0.20
2ND QUARTILE :	0.0070	2.50	0.50	5.68	38.77	5.56	1.00
3RD QUARTILE :	0.0305	3.50	0.50	14.45	56.45	14.09	1.00
VOL. WGT. MEAN :	0.0144	3.29	0.41	7.67	59.35	7.20	0.75

	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L
# OF SAMPLES :	10	11	11
MAXIMUM :	288.10	4.41	0.30
MINIMUM :	19.27	0.15	0.05
RANGE :	268.83	4.26	0.25
ARITH. MEAN :	70.25	1.57	0.13
ARITH. STD. DEV :	79.69	1.56	0.07
GEOM. MEAN :	49.66	0.98	0.11
GEOM. STD. DEV. :	2.21	2.88	1.69
1ST QUARTILE :	26.81	0.47	0.08
2ND QUARTILE :	41.77	0.83	0.10
3RD QUARTILE :	67.18	2.20	0.16
VOL. WGT. MEAN :	65.92	1.03	0.11

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PICKLE LAKE/CUMULATIVE PRECIP. #36

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	11	10	9	9	10	10	10
MAXIMUM :	94.0	16.0	5.84	0.0288	0.0488	3.40	0.380
MINIMUM :	0.8	2.5	4.54	0.0014	0.0184	0.10	0.000
RANGE :	93.2	13.5	1.30	0.0274	0.0304	3.30	0.380
ARITH. MEAN :	47.6	9.0	5.20	0.0096	0.0295	1.07	0.170
ARITH. STD. DEV :	30.3	4.6	0.45	0.0087	0.0089	0.93	0.133
GEOM. MEAN :	30.5	7.8	5.18	0.0063	0.0284	0.75	0.252
GEOM. STD. DEV. :	3.9	1.8	1.09	2.8423	1.3361	2.64	2.006
1ST QUARTILE :	14.1	4.8	4.90	0.0019	0.0218	0.40	0.025
2ND QUARTILE :	47.8	8.3	5.05	0.0083	0.0280	1.02	0.190
3RD QUARTILE :	69.0	11.9	5.39	0.0092	0.0323	1.25	0.250
VOL. WGT. MEAN :	********	8.5	********	0.0082	0.0273	1.07	0.171

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	9	10	9	9	10	10	10
MAXIMUM :	0.300	0.350	1.840	0.075	0.235	0.315	0.300
MINIMUM :	0.030	0.040	0.060	0.010	0.000	0.000	0.001
RANGE :	0.270	0.310	1.780	0.065	0.235	0.315	0.299
ARITH. MEAN :	0.164	0.171	0.416	0.032	0.059	0.123	0.128
ARITH. STD. DEV :	0.099	0.136	0.558	0.022	0.078	0.118	0.113
GEOM. MEAN :	0.129	0.122	0.238	0.025	0.070	0.095	0.042
GEOM. STD. DEV. :	2.278	2.454	2.906	2.053	4.179	4.114	9.271
1ST QUARTILE :	0.060	0.050	0.100	0.012	0.001	0.008	0.005
2ND QUARTILE :	0.160	0.090	0.205	0.025	0.025	0.082	0.130
3RD QUARTILE :	0.225	0.315	0.360	0.032	0.075	0.207	0.217
VOL. WGT. MEAN :	0.172	0.143	0.416	0.030	0.067	0.095	0.149

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PICKLE LAKE/CUMULATIVE PRECIP. #36

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85 PAGE : 2

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	9	9	10	10	9	10	10
MAXIMUM :	0.0360	11.00	2.00	10.67	85.87	9.15	1.00
MINIMUM :	0.0015	0.50	0.20	1.50	9.94	1.36	0.20
RANGE :	0.0345	10.50	1.80	9.17	75.93	7.79	0.80
ARITH. MEAN :	0.0142	3.72	0.63	4.18	34.37	4.23	0.84
ARITH. STD. DEV :	0.0121	3.17	0.49	2.69	23.17	2.52	0.34
GEOM. MEAN :	0.0099	2.73	0.53	3.53	26.58	3.55	0.72
GEOM. STD. DEV. :	2.6228	2.40	1.74	1.84	1.90	1.91	1.97
1ST QUARTILE :	0.0065	2.00	0.50	1.78	18.65	1.86	0.60
2ND QUARTILE :	0.0085	2.00	0.50	4.07	23.92	3.87	1.00
3RD QUARTILE :	0.0135	4.00	0.50	4.91	40.32	5.63	1.00
VOL. WGT. MEAN :	0.0144	3.25	0.53	3.72	38.58	3.94	0.85

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	9	10	10
MAXIMUM :	87.10	2.57	0.14
MINIMUM :	17.24	0.75	0.05
RANGE :	69.86	1.82	0.09
ARITH. MEAN :	41.93	1.33	0.08
ARITH. STD. DEV :	24.03	0.56	0.03
GEOM. MEAN :	36.58	1.24	0.07
GEOM. STD. DEV. :	1.73	1.48	1.54
1ST QUARTILE :	23.57	0.88	0.05
2ND QUARTILE :	32.59	1.20	0.07
3RD QUARTILE :	43.56	1.53	0.10
VOL. WGT. MEAN :	42.46	1.18	0.08

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PORT STANLEY/CUMULATIVE PRECIP. #03

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	13	10	10	12	13	13
MAXIMUM :	178.0	57.2	4.30	0.1122	0.1452	6.45	1.180
MINIMUM :	30.0	25.5	3.95	0.0501	0.0286	2.25	0.410
RANGE :	148.0	31.7	0.35	0.0621	0.1166	4.20	0.770
ARITH. MEAN :	72.4	39.7	4.12	0.0772	0.0900	4.44	0.691
ARITH. STD. DEV :	35.9	10.6	0.10	0.0178	0.0362	1.23	0.218
GEOM. MEAN :	66.2	38.4	4.12	0.0753	0.0806	4.27	0.662
GEOM. STD. DEV. :	1.5	1.3	1.03	1.2669	1.7195	1.35	1.350
1ST QUARTILE :	57.3	28.8	4.06	0.0614	0.0652	3.55	0.545
2ND QUARTILE :	64.0	39.7	4.11	0.0767	0.1022	4.32	0.615
3RD QUARTILE :	75.0	43.8	4.14	0.0832	0.1095	5.02	0.775
VOL. WGT. MEAN :	*******	42.7	******	0.0823	0.1022	4.58	0.665

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	10	12	13	11	13	12	12
MAXIMUM :	0.540	0.510	1.200	0.475	0.100	0.245	0.850
MINIMUM :	0.090	0.120	0.280	0.005	0.002	0.005	0.086
RANGE :	0.450	0.390	0.920	0.470	0.098	0.240	0.764
ARITH. MEAN :	0.303	0.232	0.600	0.091	0.051	0.093	0.464
ARITH. STD. DEV :	0.151	0.114	0.269	0.131	0.029	0.065	0.222
GEOM. MEAN :	0.263	0.211	0.546	0.049	0.036	0.067	0.400
GEOM. STD. DEV. :	1.828	1.550	1.584	3.290	3.015	2.787	1.899
1ST QUARTILE :	0.180	0.155	0.325	0.025	0.030	0.037	0.277
2ND QUARTILE :	0.285	0.180	0.555	0.047	0.047	0.090	0.495
3RD QUARTILE :	0.340	0.285	0.705	0.082	0.070	0.130	0.595
VOL. WGT. MEAN :	0.296	0.209	0.593	0.066	0.054	0.077	0.485

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PORT STANLEY/CUMULATIVE PRECIP. #03

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	12	12	13	13	11	13	13
MAXIMUM :	0.0450	8.00	2.00	51.25	169.80	19.75	1.00
MINIMUM :	0.0000	2.00	0.20	3.43	15.93	1.49	0.20
RANGE :	0.0450	6.00	1.80	47.82	153.87	18.26	0.80
ARITH. MEAN :	0.0145	3.75	0.55	10.59	42.39	8.06	0.86
ARITH. STD. DEV :	0.0142	1.82	0.45	12.51	43.89	4.47	0.30
GEOM. MEAN :	0.0156	3.41	0.46	7.87	32.42	6.94	0.77
GEOM. STD. DEV. :	2.7625	1.56	1.75	1.96	1.96	1.84	1.82
1ST QUARTILE :	0.0055	2.50	0.40	5.44	17.88	5.36	0.90
2ND QUARTILE :	0.0100	3.00	0.50	7.03	26.82	6.82	1.00
3RD QUARTILE :	0.0230	4.50	0.50	8.64	42.33	9.60	1.00
VOL. WGT. MEAN :	0.0131	3.91	0.49	7.90	37.58	7.28	0.86

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	10	13	13
MAXIMUM :	54.99	2.25	0.28
MINIMUM :	17.16	0.14	0.05
RANGE :	37.83	2.11	0.23
ARITH. MEAN :	35.63	0.90	0.12
ARITH. STD. DEV :	12.88	0.56	0.07
GEOM. MEAN :	33.37	0.72	0.10
GEOM. STD. DEV. :	1.48	2.19	1.72
1ST QUARTILE :	23.64	0.65	0.06
2ND QUARTILE :	33.69	0.77	0.10
3RD QUARTILE :	45.37	0.91	0.10
VOL. WGT. MEAN :	38.83	0.79	0.11

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/CUMULATIVE PRECIP. 832

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	12	12	12	12	12	12
MAXIMUM :	103.7	28.4	6.02	0.0372	0.0730	2.55	0.720
MINIMUM :	0.0	6.0	4.43	0.0010	0.0244	0.40	0.000
RANGE :	103.7	22.4	1.59	0.0362	0.0486	2.15	0.720
ARITH. MEAN :	54.2	12.0	4.99	0.0145	0.0387	1.21	0.259
ARITH. STD. DEV :	36.9	6.6	0.42	0.0114	0.0146	0.55	0.203
GEOM. MEAN :	33.9	10.7	4.97	0.0103	0.0366	1.10	0.267
GEOM. STD. DEV. :	2.4	1.6	1.09	2.6579	1.3987	1.60	1.779
1ST QUARTILE :	20.8	7.5	4.72	0.0066	0.0288	0.88	0.150
2ND QUARTILE :	46.7	9.9	5.00	0.0100	0.0315	1.20	0.200
3RD QUARTILE :	82.3	14.1	5.18	0.0191	0.0460	1.42	0.335
VOL. WGT. MEAN :	*******	9.5	*******	0.0103	0.0331	1.04	0.205

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	12	11	11	12	12	11	12
MAXIMUM :	0.530	0.570	0.510	0.080	0.085	0.480	0.400
MINIMUM :	0.015	0.030	0.060	0.002	0.000	0.000	0.030
RANGE :	0.515	0.540	0.450	0.077	0.085	0.480	0.370
ARITH. MEAN :	0.224	0.123	0.329	0.034	0.027	0.077	0.233
ARITH. STD. DEV :	0.147	0.154	0.133	0.025	0.027	0.141	0.119
GEOM. MEAN :	0.171	0.083	0.291	0.026	0.025	0.072	0.191
GEOM. STD. DEV. :	2.488	2.277	1.839	2.526	2.986	3.719	2.146
1ST QUARTILE :	0.125	0.045	0.210	0.017	0.005	0.002	0.162
2ND QUARTILE :	0.180	0.060	0.345	0.027	0.017	0.020	0.215
3RD QUARTILE :	0.280	0.110	0.420	0.042	0.047	0.057	0.326
VOL. WGT. MEAN :	0.212	0.077	0.319	0.032	0.025	0.032	0.205

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/CUMULATIVE PRECIP. #32

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	10	11	11	11	11	11	11
MAXIMUM :	0.0260	14.00	0.50	10.00	257.40	7.22	1.00
MINIMUM :	0.0015	0.50	0.10	1.31	9.23	1.43	0.20
RANGE :	0.0245	13.50	0.40	8.69	248.17	5.80	0.80
ARITH. MEAN :	0.0086	4.14	0.45	3.03	55.67	3.72	0.85
ARITH. STD. DEV :	0.0086	3.62	0.13	2.58	69.18	2.20	0.32
GEOM. MEAN :	0.0055	3.09	0.41	2.42	37.24	3.16	0.75
GEOM. STD. DEV. :	2.8557	2.31	1.64	1.90	2.36	1.83	1.92
1ST QUARTILE :	0.0015	2.00	0.40	1.37	20.34	1.69	0.60
2ND QUARTILE :	0.0055	3.00	0.50	1.97	31.76	2.41	1.00
3RD QUARTILE :	0.0090	4.50	0.50	3.14	51.02	5.49	1.00
VOL. WGT. MEAN :	0.0087	4.51	0.45	2.42	65.47	3.61	0.88

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	10	11	11
MAXIMUM :	155.90	4.00	0.45
MINIMUM :	7.29	0.41	0.03
RANGE :	148.61	3.59	0.42
ARITH. MEAN :	52.76	1.18	0.13
ARITH. STD. DEV :	45.35	1.04	0.13
GEOM. MEAN :	36.93	0.94	0.09
GEOM. STD. DEV. :	2.55	1.92	2.26
1ST QUARTILE :	18.95	0.58	0.05
2ND QUARTILE :	40.70	0.75	0.07
3RD QUARTILE :	70.74	1.18	0.10
VOL. WGT. MEAN :	39.52	0.95	0.10

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SHALLOW LAKE/CUMULATIVE PRECIP. 809

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	13	12	12	12	13	13
MAXIMUM :	140.0	44.5	4.55	0.0741	0.1104	5.65	0.910
MINIMUM :	23.8	20.1	4.13	0.0282	0.0264	1.85	0.290
RANGE :	116.2	24.4	0.42	0.0459	0.0840	3.80	0.620
ARITH. MEAN :	70.4	32.0	4.28	0.0552	0.0804	3.34	0.598
ARITH. STD. DEV :	31.8	8.5	0.15	0.0169	0.0243	1.21	0.183
GEOM. MEAN :	63.2	30.9	4.28	0.0525	0.0758	3.13	0.571
GEOM. STD. DEV. :	1.7	1.3	1.04	1.4156	1.4824	1.47	1.381
1ST QUARTILE :	47.0	23.6	4.15	0.0405	0.0654	2.05	0.445
2ND QUARTILE :	68.5	31.4	4.21	0.0617	0.0875	3.47	0.555
3RD QUARTILE :	79.0	36.4	4.39	0.0700	0.0990	3.88	0.685
VOL. MGT. MEAN :	*******	32.3	*******	0.0554	0.0835	3.20	0.552

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	13	13	13	13	13	13	12
MAXIMUM :	1.610	0.280	1.730	0.400	0.115	0.115	1.100
MINIMUM :	0.090	0.070	0.240	0.015	0.002	0.005	0.210
RANGE :	1.520	0.210	1.490	0.385	0.113	0.110	0.890
ARITH. MEAN :	0.380	0.155	0.583	0.090	0.030	0.056	0.476
ARITH. STD. DEV :	0.426	0.057	0.372	0.112	0.028	0.037	0.224
GEOM. MEAN :	0.259	0.146	0.517	0.053	0.021	0.038	0.439
GEOM. STD. DEV. :	2.315	1.431	1.595	2.748	2.698	3.111	1.494
1ST QUARTILE :	0.135	0.125	0.410	0.022	0.014	0.019	0.364
2ND QUARTILE :	0.205	0.140	0.460	0.042	0.025	0.055	0.425
3RD QUARTILE :	0.325	0.165	0.535	0.085	0.032	0.075	0.507
VOL. MGT. MEAN :	0.279	0.143	0.518	0.062	0.027	0.048	0.433

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SHALLOW LAKE/CUMULATIVE PRECIP. #09

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES	12	12	13	12	12	13	13
MAXIMUM	0.0150	5.00	0.50	8.19	57.33	20.88	1.00
MINIMUM	0.0000	1.00	0.10	2.53	13.61	2.29	0.20
RANGE	0.0150	4.00	0.40	5.66	43.72	18.59	0.80
ARITH. MEAN	0.0065	2.75	0.42	5.30	28.51	8.71	0.65
ARITH. STD. DEV	0.0046	1.36	0.16	1.71	13.73	5.70	0.28
GEOM. MEAN	0.0087	2.43	0.36	5.02	25.73	7.35	0.78
GEOM. STD. DEV.	2.3904	1.71	1.87	1.42	1.60	1.82	1.66
1ST QUARTILE	0.0035	2.00	0.35	3.91	17.34	4.87	0.75
2ND QUARTILE	0.0060	2.50	0.50	5.23	24.91	7.53	1.00
3RD QUARTILE	0.0090	3.50	0.50	6.71	38.47	8.70	1.00
VOL. MGT. MEAN	0.0060	2.68	0.40	4.97	26.64	7.05	0.83

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES	12	13	13
MAXIMUM	66.13	4.78	0.50
MINIMUM	7.33	0.14	0.05
RANGE	58.80	4.64	0.45
ARITH. MEAN	34.12	1.04	0.13
ARITH. STD. DEV	15.95	1.16	0.12
GEOM. MEAN	30.09	0.72	0.11
GEOM. STD. DEV.	1.78	2.40	1.78
1ST QUARTILE	25.54	0.67	0.09
2ND QUARTILE	31.15	0.75	0.10
3RD QUARTILE	46.94	0.93	0.10
VOL. MGT. MEAN	33.54	0.77	0.11

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SMITH'S FALLS/CUMULATIVE PRECIP. #15

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85 PAGE : 1

		PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES	:	13	12	9	9	11	12	12
MAXIMUM	:	120.0	59.8	4.78	0.1349	0.1276	6.05	1.000
MINIMUM	:	24.3	13.0	3.87	0.0166	0.0182	1.45	0.270
RANGE	:	95.7	46.8	0.91	0.1183	0.1094	4.60	0.730
ARITH. MEAN	:	60.8	33.5	4.24	0.0666	0.0710	3.40	0.594
ARITH. STD. DEV	:	32.0	12.4	0.26	0.0335	0.0380	1.37	0.205
GEOM. MEAN	:	53.9	31.3	4.23	0.0581	0.0598	3.14	0.561
GEOM. STD. DEV.	:	1.7	1.5	1.06	1.8205	1.9426	1.53	1.438
1ST QUARTILE	:	36.6	25.3	4.08	0.0438	0.0277	2.40	0.435
2ND QUARTILE	:	43.5	32.8	4.18	0.0631	0.0714	3.13	0.550
3RD QUARTILE	:	74.5	40.8	4.24	0.0754	0.0943	4.38	0.740
VOL. WGT. MEAN	:	********	31.5	********	0.0608	0.0676	3.23	0.538

		CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES	:	10	9	11	9	11	9	11
MAXIMUM	:	1.030	0.270	0.680	0.120	0.080	0.095	0.505
MINIMUM	:	0.100	0.070	0.220	0.020	0.000	0.035	0.145
RANGE	:	0.930	0.200	0.460	0.100	0.080	0.060	0.360
ARITH. MEAN	:	0.341	0.166	0.405	0.059	0.025	0.061	0.314
ARITH. STD. DEV	:	0.280	0.064	0.150	0.035	0.024	0.022	0.133
GEOM. MEAN	:	0.271	0.154	0.381	0.051	0.025	0.058	0.288
GEOM. STD. DEV.	:	1.974	1.525	1.430	1.825	3.409	1.433	1.556
1ST QUARTILE	:	0.160	0.115	0.280	0.032	0.002	0.042	0.194
2ND QUARTILE	:	0.240	0.160	0.335	0.042	0.025	0.057	0.258
3RD QUARTILE	:	0.335	0.175	0.490	0.070	0.030	0.062	0.440
VOL. WGT. MEAN	:	0.301	0.150	0.389	0.054	0.029	0.059	0.296

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SMITH'S FALLS/CUMULATIVE PRECIP. #15

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR MG/L	MANGANSE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L	LEAD UG/L	VANADIUM UG/L
# OF SAMPLES :	11	12	12	10	11	11	12
MAXIMUM :	0.0640	14.00	0.50	20.73	120.20	16.09	1.00
MINIMUM :	0.0000	2.00	0.10	4.25	16.97	2.28	0.50
RANGE :	0.0640	12.00	0.40	16.48	103.23	13.81	0.50
ARITH. MEAN :	0.0127	5.42	0.44	9.12	50.37	7.35	0.90
ARITH. STD. DEV :	0.0189	4.46	0.12	5.20	42.49	3.95	0.19
GEOM. MEAN :	0.0094	4.13	0.41	8.03	37.32	6.43	0.88
GEOM. STD. DEV. :	4.5475	2.09	1.60	1.68	2.19	1.75	1.28
1ST QUARTILE :	0.0007	2.50	0.45	4.58	19.57	3.94	0.85
2ND QUARTILE :	0.0055	3.00	0.50	8.30	23.93	6.13	1.00
3RD QUARTILE :	0.0145	8.50	0.50	9.43	80.47	9.61	1.00
VOL. WGT. MEAN :	0.0113	5.17	0.44	7.80	44.84	6.67	0.92

	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L
# OF SAMPLES :	11	11	12
MAXIMUM :	145.40	4.87	0.20
MINIMUM :	14.49	0.47	0.05
RANGE :	130.91	4.39	0.15
ARITH. MEAN :	57.40	1.34	0.09
ARITH. STD. DEV :	43.14	1.23	0.04
GEOM. MEAN :	45.13	1.06	0.09
GEOM. STD. DEV. :	2.07	1.91	1.52
1ST QUARTILE :	23.28	0.60	0.05
2ND QUARTILE :	36.43	0.93	0.10
3RD QUARTILE :	69.50	1.38	0.10
VOL. WGT. MEAN :	51.61	1.20	0.09

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : TURKEY LAKE/CUMULATIVE PRECIP. 837

PERIOD OF REPORT : JAN 4,84 TO JAN 1,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	12	11	12	12	11	11	11
MAXIMUM :	164.1	38.9	4.74	0.0759	0.1174	4.30	0.800
MINIMUM :	4.6	13.0	4.12	0.0182	0.0390	0.90	0.230
RANGE :	159.5	25.9	0.62	0.0577	0.0784	3.40	0.570
ARITH. MEAN :	85.5	24.2	4.44	0.0414	0.0709	2.68	0.419
ARITH. STD. DEV :	48.1	8.3	0.23	0.0205	0.0238	1.13	0.172
GEOM. MEAN :	65.9	22.8	4.43	0.0367	0.0673	2.40	0.391
GEOM. STD. DEV. :	2.6	1.4	1.05	1.6900	1.4026	1.71	1.468
1ST QUARTILE :	54.2	14.3	4.27	0.0207	0.0469	1.38	0.275
2ND QUARTILE :	82.0	26.1	4.38	0.0417	0.0661	2.67	0.350
3RD QUARTILE :	111.0	27.9	4.68	0.0539	0.0819	3.50	0.510
VOL. WGT. MEAN :	*******	23.2	*******	0.0361	0.0654	2.59	0.384

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	12	11	11	12	12	12	12
MAXIMUM :	0.670	0.170	1.190	0.135	0.395	0.180	0.675
MINIMUM :	0.060	0.040	0.300	0.002	0.000	0.000	0.130
RANGE :	0.610	0.130	0.890	0.132	0.395	0.180	0.545
ARITH. MEAN :	0.296	0.112	0.529	0.057	0.086	0.054	0.377
ARITH. STD. DEV :	0.203	0.050	0.250	0.050	0.122	0.051	0.160
GEOM. MEAN :	0.239	0.099	0.489	0.036	0.079	0.053	0.343
GEOM. STD. DEV. :	2.013	1.750	1.481	3.132	3.687	2.723	1.614
1ST QUARTILE :	0.160	0.050	0.345	0.025	0.012	0.017	0.249
2ND QUARTILE :	0.210	0.125	0.440	0.030	0.020	0.042	0.382
3RD QUARTILE :	0.425	0.150	0.595	0.118	0.152	0.085	0.472
VOL. WGT. MEAN :	0.264	0.110	0.495	0.047	0.055	0.035	0.386

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : TURKEY LAKE/CUMULATIVE PRECIP. #37

PERIOD OF REPORT : JAN 4,84 TO JAN 1,85

	PHOSPHOR MG/L	MANGANSE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L	LEAD UG/L	VANADIUM UG/L
# OF SAMPLES	11	11	11	11	11	11	11
MAXIMUM	0.0500	17.00	0.80	14.28	157.90	14.81	1.00
MINIMUM	0.0015	1.00	0.50	1.34	18.59	2.13	0.20
RANGE	0.0485	16.00	0.30	12.94	139.31	12.68	0.80
ARITH. MEAN	0.0109	5.18	0.55	6.31	52.32	8.47	0.85
ARITH. STD. DEV	0.0136	5.23	0.10	3.93	44.18	3.94	0.32
GEOM. MEAN	0.0066	3.67	0.54	5.31	40.72	7.54	0.75
GEOM. STD. DEV.	2.7857	2.27	1.18	1.89	2.02	1.72	1.92
1ST QUARTILE	0.0020	2.00	0.50	3.82	21.90	6.01	0.60
2ND QUARTILE	0.0065	3.00	0.50	5.08	34.98	7.16	1.00
3RD QUARTILE	0.0110	4.00	0.50	6.53	54.04	10.97	1.00
VOL. MGT. MEAN	0.0082	4.75	0.57	6.09	49.23	8.24	0.79

	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L
# OF SAMPLES	11	11	11
MAXIMUM	193.90	2.65	0.30
MINIMUM	18.48	0.67	0.04
RANGE	175.42	1.98	0.26
ARITH. MEAN	61.76	1.20	0.10
ARITH. STD. DEV	59.83	0.71	0.07
GEOM. MEAN	44.58	1.06	0.08
GEOM. STD. DEV.	2.21	1.62	1.79
1ST QUARTILE	20.68	0.68	0.05
2ND QUARTILE	34.93	0.92	0.07
3RD QUARTILE	58.35	1.14	0.10
VOL. MGT. MEAN	56.72	1.02	0.08

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : UXBRIDGE/CUMULATIVE PRECIP. #11

PERIOD OF REPORT : JAN 2,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	11	10	10	11	11	11
MAXIMUM :	125.0	49.5	4.68	0.0851	0.1166	4.90	0.900
MINIMUM :	35.0	20.0	4.07	0.0209	0.0228	1.55	0.420
RANGE :	90.0	29.5	0.61	0.0642	0.0938	3.35	0.480
ARITH. MEAN :	63.8	32.3	4.31	0.0518	0.0769	3.28	0.634
ARITH. STD. DEV :	26.9	7.9	0.17	0.0179	0.0251	1.15	0.150
GEOM. MEAN :	59.0	31.4	4.31	0.0488	0.0717	3.08	0.618
GEOM. STD. DEV. :	1.5	1.3	1.04	1.4725	1.5551	1.47	1.269
1ST QUARTILE :	38.1	25.2	4.18	0.0398	0.0593	2.07	0.490
2ND QUARTILE :	57.9	31.4	4.29	0.0513	0.0762	3.02	0.600
3RD QUARTILE :	74.0	35.1	4.39	0.0612	0.0897	4.27	0.720
VOL. WGT. MEAN :	********	32.0	********	0.0513	0.0775	3.22	0.593

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	1.890	0.530	1.040	0.260	0.100	0.270	0.775
MINIMUM :	0.160	0.110	0.140	0.015	0.002	0.025	0.080
RANGE :	1.730	0.420	0.900	0.245	0.098	0.245	0.695
ARITH. MEAN :	0.630	0.235	0.487	0.086	0.039	0.085	0.386
ARITH. STD. DEV :	0.523	0.124	0.260	0.077	0.034	0.070	0.225
GEOM. MEAN :	0.471	0.210	0.426	0.061	0.021	0.067	0.322
GEOM. STD. DEV. :	2.235	1.631	1.760	2.405	3.703	2.001	1.965
1ST QUARTILE :	0.200	0.130	0.260	0.030	0.005	0.035	0.178
2ND QUARTILE :	0.455	0.205	0.430	0.045	0.027	0.055	0.320
3RD QUARTILE :	0.735	0.285	0.585	0.105	0.060	0.103	0.495
VOL. WGT. MEAN :	0.546	0.210	0.463	0.072	0.034	0.073	0.367

: INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : UXBRIDGE/CUMULATIVE PRECIP. #11

PERIOD OF REPORT : JAN 2,84 TO JAN 2,85

	PHOSPHOR MG/L	MANGANSE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L	LEAD UG/L	VANADIUM UG/L
# OF SAMPLES	11	11	11	11	11	9	11
MAXIMUM	0.0300	9.00	2.00	20.16	132.60	9.81	1.00
MINIMUM	0.0010	1.00	0.20	3.26	13.21	4.64	0.40
RANGE	0.0290	8.00	1.80	16.90	119.39	5.17	0.60
ARITH. MEAN	0.0101	4.09	0.61	8.52	58.17	7.21	0.95
ARITH. STD. DEV	0.0090	2.63	0.47	5.87	35.01	1.55	0.18
GEOM. MEAN	0.0068	3.36	0.52	7.10	48.51	7.05	0.92
GEOM. STD. DEV.	2.8031	1.96	1.69	1.84	1.95	1.26	1.32
1ST QUARTILE	0.0032	2.00	0.50	4.05	26.23	5.93	1.00
2ND QUARTILE	0.0070	3.00	0.50	5.89	50.10	7.39	1.00
3RD QUARTILE	0.0130	5.50	0.50	9.59	73.36	7.78	1.00
VOL. MGT. MEAN	0.0089	3.60	0.55	7.07	52.32	7.09	0.95

	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L
# OF SAMPLES	10	11	11
MAXIMUM	94.64	4.48	0.30
MINIMUM	18.02	0.63	0.05
RANGE	76.62	3.85	0.25
ARITH. MEAN	59.94	1.96	0.13
ARITH. STD. DEV	25.09	1.65	0.07
GEOM. MEAN	54.19	1.42	0.12
GEOM. STD. DEV.	1.67	2.29	1.62
1ST QUARTILE	38.70	0.75	0.10
2ND QUARTILE	59.00	0.83	0.10
3RD QUARTILE	79.16	3.58	0.15
VOL. MGT. MEAN	56.59	1.58	0.12

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WATERLOO/CUMULATIVE PRECIP. 807

PERIOD OF REPORT : JAN 3,84 TO JAN 1,85 PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	13	11	11	12	13	13
MAXIMUM :	129.0	79.1	4.51	0.0794	0.1126	5.75	0.930
MINIMUM :	31.0	21.0	4.10	0.0309	0.0248	2.20	0.360
RANGE :	98.0	58.1	0.41	0.0485	0.0878	3.55	0.570
ARITH. MEAN :	68.4	38.7	4.24	0.0588	0.0821	3.81	0.580
ARITH. STD. DEV :	30.1	14.1	0.12	0.0139	0.0244	1.15	0.148
GEOM. MEAN :	62.8	36.9	4.24	0.0571	0.0771	3.64	0.563
GEOM. STD. DEV. :	1.5	1.4	1.03	1.3097	1.5186	1.38	1.285
1ST QUARTILE :	41.5	30.0	4.15	0.0466	0.0750	2.63	0.505
2ND QUARTILE :	62.5	35.9	4.21	0.0589	0.0875	3.88	0.545
3RD QUARTILE :	76.5	41.0	4.26	0.0669	0.0976	4.40	0.625
VOL. WGT. MEAN :	*******	37.0	*******	0.0575	0.0843	3.80	0.556

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	11	13	12	11	12	13	10
MAXIMUM :	0.620	0.510	1.130	0.125	0.165	0.230	0.905
MINIMUM :	0.170	0.110	0.270	0.025	0.005	0.008	0.240
RANGE :	0.450	0.400	0.860	0.100	0.160	0.222	0.665
ARITH. MEAN :	0.331	0.228	0.565	0.070	0.043	0.086	0.480
ARITH. STD. DEV :	0.144	0.123	0.258	0.039	0.048	0.065	0.200
GEOM. MEAN :	0.305	0.205	0.515	0.060	0.026	0.062	0.445
GEOM. STD. DEV. :	1.512	1.604	1.562	1.800	2.942	2.581	1.506
1ST QUARTILE :	0.210	0.140	0.355	0.035	0.015	0.042	0.297
2ND QUARTILE :	0.260	0.190	0.520	0.047	0.027	0.070	0.460
3RD QUARTILE :	0.415	0.245	0.675	0.105	0.050	0.095	0.570
VOL. WGT. MEAN :	0.338	0.195	0.579	0.074	0.037	0.069	0.482

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WATERLOO/CUMULATIVE PRECIP. #07

PERIOD OF REPORT : JAN 3,84 TO JAN 1,85

	PHOSPHOR MG/L	MANGANSE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L	LEAD UG/L	VANADIUM UG/L
# OF SAMPLES	12	12	13	13	12	13	13
MAXIMUM	0.0260	17.00	0.50	24.67	210.20	16.58	1.00
MINIMUM	0.0000	2.00	0.10	4.36	22.05	2.37	0.20
RANGE	0.0260	15.00	0.40	20.31	188.15	14.21	0.80
ARITH. MEAN	0.0109	4.50	0.42	9.34	71.77	9.94	0.78
ARITH. STD. DEV	0.0092	4.08	0.15	5.27	65.70	4.57	0.34
GEOM. MEAN	0.0119	3.67	0.38	8.41	52.72	8.79	0.68
GEOM. STD. DEV.	3.0274	1.80	1.69	1.56	2.17	1.75	1.89
1ST QUARTILE	0.0032	2.50	0.30	6.52	29.15	6.40	0.40
2ND QUARTILE	0.0085	3.50	0.50	7.06	45.23	8.66	1.00
3RD QUARTILE	0.0190	4.50	0.50	9.60	89.00	12.75	1.00
VOL. WGT. MEAN	0.0101	4.23	0.42	8.05	82.75	10.24	0.78

	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L
# OF SAMPLES	12	13	13
MAXIMUM	162.70	4.93	0.20
MINIMUM	17.66	0.65	0.05
RANGE	145.04	4.28	0.15
ARITH. MEAN	60.83	1.69	0.11
ARITH. STD. DEV	48.57	1.59	0.06
GEOM. MEAN	45.85	1.24	0.10
GEOM. STD. DEV.	2.19	2.12	1.67
1ST QUARTILE	24.33	0.73	0.06
2ND QUARTILE	42.33	0.87	0.10
3RD QUARTILE	80.39	1.20	0.11
VOL. WGT. MEAN	67.29	1.30	0.10

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITNEY/CUMULATIVE PRECIP. #19

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85 PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	12	11	11	11	10	11	11
MAXIMUM :	112.0	34.4	4.77	0.0617	0.0938	4.40	0.540
MINIMUM :	37.1	12.0	4.21	0.0170	0.0426	0.90	0.230
RANGE :	74.9	22.4	0.56	0.0447	0.0512	3.50	0.310
ARITH. MEAN :	72.8	24.2	4.43	0.0405	0.0736	2.61	0.387
ARITH. STD. DEV :	24.5	7.5	0.18	0.0156	0.0160	1.15	0.098
GEOM. MEAN :	68.7	22.9	4.42	0.0375	0.0718	2.33	0.375
GEOM. STD. DEV. :	1.4	1.4	1.04	1.5206	1.2789	1.70	1.306
1ST QUARTILE :	52.5	15.2	4.25	0.0279	0.0572	1.22	0.285
2ND QUARTILE :	73.0	25.9	4.39	0.0320	0.0782	2.63	0.385
3RD QUARTILE :	91.0	29.3	4.55	0.0556	0.0824	3.17	0.460
VOL. WGT. MEAN :	*******	24.5	*******	0.0408	0.0731	2.57	0.374

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	0.790	0.790	1.150	0.140	0.755	0.350	0.765
MINIMUM :	0.020	0.040	0.090	0.005	0.000	0.002	0.050
RANGE :	0.770	0.750	1.060	0.135	0.755	0.348	0.715
ARITH. MEAN :	0.204	0.170	0.464	0.039	0.113	0.064	0.320
ARITH. STD. DEV :	0.221	0.211	0.371	0.040	0.225	0.101	0.232
GEOM. MEAN :	0.133	0.118	0.345	0.024	0.062	0.025	0.248
GEOM. STD. DEV. :	2.657	2.190	2.258	2.904	6.303	4.349	2.193
1ST QUARTILE :	0.075	0.065	0.185	0.008	0.001	0.006	0.155
2ND QUARTILE :	0.105	0.105	0.270	0.027	0.017	0.020	0.204
3RD QUARTILE :	0.230	0.145	0.720	0.045	0.117	0.062	0.450
VOL. WGT. MEAN :	0.179	0.153	0.436	0.035	0.099	0.053	0.305

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITNEY/CUMULATIVE PRECIP. #19

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES	11	11	11	11	11	11	11
MAXIMUM	0.1280	22.00	0.50	12.83	255.10	11.43	1.00
MINIMUM	0.0005	0.50	0.10	1.31	7.11	2.92	0.20
RANGE	0.1275	21.50	0.40	11.52	247.99	8.51	0.80
ARITH. MEAN	0.0295	4.05	0.45	4.41	45.22	5.46	0.85
ARITH. STD. DEV	0.0410	6.23	0.12	3.45	72.49	2.44	0.32
GEOM. MEAN	0.0077	2.17	0.42	3.47	24.21	5.04	0.75
GEOM. STD. DEV.	7.3593	2.87	1.62	2.04	2.74	1.51	1.92
1ST QUARTILE	0.0010	1.00	0.45	1.78	12.25	3.10	0.60
2ND QUARTILE	0.0075	2.00	0.50	2.56	17.32	4.94	1.00
3RD QUARTILE	0.0460	3.00	0.50	5.47	30.40	6.16	1.00
VOL. WGT. MEAN	0.0258	3.29	0.45	3.78	37.52	5.62	0.84

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES	11	11	11
MAXIMUM	281.50	2.43	0.10
MINIMUM	9.28	0.15	0.02
RANGE	272.21	2.29	0.08
ARITH. MEAN	50.12	1.27	0.08
ARITH. STD. DEV	80.13	0.81	0.03
GEOM. MEAN	27.40	0.99	0.07
GEOM. STD. DEV.	2.65	2.31	1.70
1ST QUARTILE	13.89	0.61	0.05
2ND QUARTILE	20.94	0.93	0.10
3RD QUARTILE	27.52	2.01	0.10
VOL. WGT. MEAN	41.37	1.17	0.08

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MILBERFORCE/CUMULATIVE PRECIP. #18

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	13	13	13	12	13	13
MAXIMUM :	143.0	49.5	4.65	0.0851	0.1186	4.65	1.040
MINIMUM :	34.0	17.1	4.07	0.0224	0.0528	1.25	0.300
RANGE :	109.0	32.4	0.58	0.0627	0.0658	3.40	0.740
ARITH. MEAN :	76.2	31.9	4.27	0.0578	0.0871	2.82	0.530
ARITH. STD. DEV :	28.4	8.5	0.17	0.0194	0.0197	1.06	0.199
GEOM. MEAN :	71.6	30.8	4.26	0.0542	0.0848	2.62	0.502
GEOM. STD. DEV. :	1.4	1.3	1.04	1.4872	1.2810	1.50	1.397
1ST QUARTILE :	57.0	25.6	4.11	0.0439	0.0750	1.85	0.410
2ND QUARTILE :	70.5	30.8	4.22	0.0576	0.0908	2.65	0.450
3RD QUARTILE :	82.0	35.7	4.31	0.0726	0.0977	3.45	0.575
VOL. WGT. MEAN :	*******	30.9	*******	0.0569	0.0866	2.73	0.493

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	1.010	0.310	0.860	0.235	0.120	0.160	0.590
MINIMUM :	0.100	0.070	0.230	0.008	0.000	0.005	0.100
RANGE :	0.910	0.240	0.630	0.227	0.120	0.155	0.490
ARITH. MEAN :	0.241	0.154	0.400	0.041	0.026	0.062	0.312
ARITH. STD. DEV :	0.247	0.067	0.172	0.060	0.033	0.048	0.142
GEOM. MEAN :	0.186	0.141	0.373	0.025	0.032	0.042	0.282
GEOM. STD. DEV. :	1.910	1.546	1.452	2.453	3.437	2.885	1.623
1ST QUARTILE :	0.120	0.110	0.285	0.015	0.004	0.025	0.198
2ND QUARTILE :	0.150	0.140	0.330	0.017	0.014	0.045	0.270
3RD QUARTILE :	0.185	0.165	0.445	0.032	0.027	0.080	0.365
VOL. WGT. MEAN :	0.208	0.145	0.375	0.032	0.023	0.057	0.294

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILBERFORCE/CUMULATIVE PRECIP. #18

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR MG/L	MANGANSE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L	LEAD UG/L	VANADIUM UG/L
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	0.1260	7.00	0.50	9.28	101.10	9.64	1.00
MINIMUM :	0.0015	0.50	0.20	1.50	14.52	2.50	0.20
RANGE :	0.1245	6.50	0.30	7.78	86.58	7.14	0.80
ARITH. MEAN :	0.0152	2.58	0.45	4.03	36.44	5.29	0.88
ARITH. STD. DEV :	0.0336	2.10	0.11	2.05	26.48	2.03	0.30
GEOM. MEAN :	0.0056	1.98	0.43	3.62	30.03	4.95	0.78
GEOM. STD. DEV. :	3.5400	2.13	1.41	1.61	1.85	1.47	1.83
1ST QUARTILE :	0.0018	1.00	0.50	2.51	18.94	3.49	1.00
2ND QUARTILE :	0.0055	2.00	0.50	3.36	23.92	5.05	1.00
3RD QUARTILE :	0.0095	2.50	0.50	4.76	35.72	5.84	1.00
VOL. WGT. MEAN :	0.0116	2.29	0.44	3.64	32.36	4.90	0.83

	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L
# OF SAMPLES :	13	13	13
MAXIMUM :	105.60	1.71	0.20
MINIMUM :	11.23	0.66	0.05
RANGE :	94.37	1.05	0.15
ARITH. MEAN :	35.94	1.01	0.09
ARITH. STD. DEV :	26.69	0.34	0.04
GEOM. MEAN :	29.63	0.97	0.08
GEOM. STD. DEV. :	1.85	1.37	1.51
1ST QUARTILE :	19.88	0.73	0.05
2ND QUARTILE :	24.36	0.85	0.08
3RD QUARTILE :	34.44	1.19	0.10
VOL. WGT. MEAN :	33.42	0.96	0.08

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MILKESPORT/CUMULATIVE PRECIP. #04

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85 PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	13	11	10	10	11	12	12
MAXIMUM :	100.0	81.8	4.76	0.2089	0.2540	11.80	1.780
MINIMUM :	20.0	19.6	3.68	0.0174	0.0192	2.20	0.300
RANGE :	80.0	62.2	1.08	0.1916	0.2348	9.60	1.480
ARITH. MEAN :	53.3	42.5	4.16	0.0846	0.1111	5.36	0.882
ARITH. STD. DEV :	28.5	17.8	0.30	0.0575	0.0676	2.74	0.495
GEOM. MEAN :	46.0	39.4	4.15	0.0689	0.0917	4.80	0.759
GEOM. STD. DEV. :	1.8	1.5	1.08	2.0148	2.0175	1.63	1.790
1ST QUARTILE :	25.4	27.9	3.90	0.0449	0.0592	3.50	0.465
2ND QUARTILE :	42.5	37.2	4.15	0.0711	0.0850	4.60	0.755
3RD QUARTILE :	76.5	48.8	4.29	0.0897	0.1346	7.07	1.180
VOL. WGT. MEAN :	*******	39.0	*******	0.0677	0.1017	4.64	0.709

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	11	11	11	11	11	10	12
MAXIMUM :	1.600	0.730	1.660	0.230	0.180	0.195	1.300
MINIMUM :	0.230	0.140	0.000	0.045	0.002	0.008	0.105
RANGE :	1.370	0.590	1.660	0.185	0.178	0.187	1.195
ARITH. MEAN :	0.704	0.395	0.820	0.108	0.078	0.113	0.624
ARITH. STD. DEV :	0.430	0.181	0.512	0.069	0.053	0.061	0.374
GEOM. MEAN :	0.589	0.355	0.805	0.091	0.052	0.088	0.491
GEOM. STD. DEV. :	1.895	1.642	1.724	1.825	3.321	2.609	2.254
1ST QUARTILE :	0.310	0.230	0.330	0.052	0.027	0.065	0.302
2ND QUARTILE :	0.575	0.360	0.697	0.072	0.077	0.110	0.612
3RD QUARTILE :	0.910	0.500	1.120	0.150	0.110	0.160	0.875
VOL. WGT. MEAN :	0.608	0.358	0.682	0.088	0.075	0.110	0.555

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILKESPORT/CUMULATIVE PRECIP. #04

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR MG/L	MANGANSE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L	LEAD UG/L	VANADIUM UG/L
# OF SAMPLES	12	10	11	10	8	10	11
MAXIMUM	0.0800	7.00	3.00	32.55	106.40	28.28	1.00
MINIMUM	0.0000	2.00	0.50	5.37	14.22	4.85	0.20
RANGE	0.0800	5.00	2.50	27.18	92.18	23.43	0.80
ARITH. MEAN	0.0227	4.00	0.90	16.58	54.52	13.83	0.84
ARITH. STD. DEV	0.0249	1.70	0.76	8.55	33.87	8.42	0.29
GEOM. MEAN	0.0190	3.72	0.73	14.50	44.32	11.52	0.76
GEOM. STD. DEV.	4.0576	1.48	1.83	1.76	2.08	1.93	1.71
1ST QUARTILE	0.0050	3.00	0.50	8.75	27.11	5.78	0.50
2ND QUARTILE	0.0140	3.50	0.50	17.08	50.49	12.71	1.00
3RD QUARTILE	0.0350	4.00	1.05	19.62	80.15	19.07	1.00
VOL. MGT. MEAN	0.0211	3.62	0.78	14.41	43.07	11.95	0.81

	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L
# OF SAMPLES	8	10	11
MAXIMUM	102.60	7.76	0.50
MINIMUM	28.73	0.74	0.05
RANGE	73.87	7.02	0.45
ARITH. MEAN	63.25	2.79	0.20
ARITH. STD. DEV	30.11	2.41	0.13
GEOM. MEAN	56.66	2.02	0.16
GEOM. STD. DEV.	1.67	2.30	1.95
1ST QUARTILE	35.77	1.00	0.10
2ND QUARTILE	57.91	1.38	0.15
3RD QUARTILE	93.66	3.77	0.25
VOL. MGT. MEAN	54.66	2.08	0.17

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MINISK/CUMULATIVE PRECIP. #29

PERIOD OF REPORT : JAN 4,84 TO JUN 22,84

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	4	1	0	0	2	0	1
MAXIMUM :	120.1	43.5	*******	********	0.0184	*******	0.380
MINIMUM :	18.2	43.5	*******	********	0.0136	*******	0.380
RANGE :	101.9	0.0	*******	********	0.0048	*******	0.000
ARITH. MEAN :	49.1	*******	*******	********	0.0160	*******	********
ARITH. STD. DEV :	47.7	*******	*******	********	0.0034	*******	********
GEOM. MEAN :	36.7	*******	*******	********	0.0158	*******	********
GEOM. STD. DEV. :	2.3	*******	*******	********	1.2383	*******	********
1ST QUARTILE :	21.4	*******	*******	********	********	*******	********
2ND QUARTILE :	29.1	*******	*******	********	********	*******	********
3RD QUARTILE :	76.9	*******	*******	********	********	*******	********
VOL. WGT. MEAN :	*******	*******	*******	********	0.0167	*******	********

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	0	0	1	0	0	0	0
MAXIMUM :	********	********	0.380	********	********	********	********
MINIMUM :	********	********	0.380	********	********	********	********
RANGE :	********	********	0.000	********	********	********	********
ARITH. MEAN :	********	********	********	********	********	********	********
ARITH. STD. DEV :	********	********	********	********	********	********	********
GEOM. MEAN :	********	********	********	********	********	********	********
GEOM. STD. DEV. :	********	********	********	********	********	********	********
1ST QUARTILE :	********	********	********	********	********	********	********
2ND QUARTILE :	********	********	********	********	********	********	********
3RD QUARTILE :	********	********	********	********	********	********	********
VOL. WGT. MEAN :	********	********	********	********	********	********	********

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

PART IV

SUMMARY STATISTICS OF PRECIPITATION CONCENTRATION BY REGION

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CENTRAL REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 2,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	68	64	61	61	62	65	65
MAXIMUM :	158.0	50.8	4.77	0.1047	0.1186	5.90	1.040
MINIMUM :	27.5	11.3	3.98	0.0170	0.0192	1.20	0.260
RANGE :	130.5	39.5	0.79	0.0877	0.0994	4.70	0.780
ARITH. MEAN :	70.8	31.9	4.28	0.0554	0.0797	3.12	0.573
ARITH. STD. DEV :	30.0	8.4	0.16	0.0184	0.0228	1.23	0.190
GEOM. MEAN :	65.2	30.7	4.28	0.0521	0.0753	2.87	0.542
GEOM. STD. DEV. :	1.5	1.3	1.04	1.4557	1.4553	1.53	1.407
1ST QUARTILE :	50.5	26.6	4.16	0.0403	0.0647	2.15	0.420
2ND QUARTILE :	66.1	32.6	4.25	0.0562	0.0828	3.00	0.535
3RD QUARTILE :	84.5	37.6	4.39	0.0676	0.0952	3.85	0.715
VOL. WGT. MEAN :	*******	31.2	*******	0.0541	0.0788	3.04	0.539

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	64	63	64	64	63	63	65
MAXIMUM :	1.890	0.660	1.210	0.275	0.275	0.460	0.945
MINIMUM :	0.020	0.050	0.140	0.002	0.000	0.000	0.080
RANGE :	1.870	0.610	1.070	0.272	0.275	0.460	0.865
ARITH. MEAN :	0.400	0.194	0.471	0.061	0.036	0.079	0.374
ARITH. STD. DEV :	0.372	0.116	0.246	0.061	0.045	0.075	0.203
GEOM. MEAN :	0.282	0.169	0.417	0.040	0.034	0.058	0.322
GEOM. STD. DEV. :	2.337	1.672	1.631	2.598	3.168	2.551	1.770
1ST QUARTILE :	0.160	0.120	0.300	0.020	0.005	0.035	0.225
2ND QUARTILE :	0.250	0.160	0.400	0.035	0.025	0.060	0.315
3RD QUARTILE :	0.540	0.240	0.575	0.052	0.050	0.098	0.480
VOL. WGT. MEAN :	0.348	0.177	0.447	0.053	0.033	0.070	0.355

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CENTRAL REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 2,84 TO JAN 2,85

	PHOSPHOR MG/L	MANGANSE UG/L	NICKEL UG/L	ZINC UG/L	IRON UG/L	LEAD UG/L	VANADIUM UG/L
# OF SAMPLES :	63	63	64	65	65	63	65
MAXIMUM :	0.1260	14.00	2.00	20.16	235.40	17.44	2.00
MINIMUM :	0.0000	0.50	0.20	1.50	6.77	2.27	0.20
RANGE :	0.1260	13.50	1.80	18.66	228.63	15.17	1.80
ARITH. MEAN :	0.0132	3.29	0.53	6.52	47.07	7.23	0.92
ARITH. STD. DEV :	0.0228	2.54	0.29	4.30	40.22	3.35	0.28
GEOM. MEAN :	0.0077	2.53	0.49	5.46	35.74	6.53	0.84
GEOM. STD. DEV. :	3.2620	2.12	1.47	1.80	2.08	1.59	1.64
1ST QUARTILE :	0.0015	2.00	0.50	3.51	20.77	5.26	1.00
2ND QUARTILE :	0.0070	2.00	0.50	5.52	31.74	6.49	1.00
3RD QUARTILE :	0.0140	4.00	0.50	7.05	54.67	8.50	1.00
VOL. MGT. MEAN :	0.0111	2.98	0.50	5.84	43.01	6.83	0.89

	ALUMINUM UG/L	COPPER UG/L	CADMIUM UG/L
# OF SAMPLES :	63	65	65
MAXIMUM :	229.40	11.98	0.30
MINIMUM :	11.23	0.22	0.01
RANGE :	218.17	11.76	0.29
ARITH. MEAN :	46.24	1.46	0.10
ARITH. STD. DEV :	35.40	1.62	0.05
GEOM. MEAN :	37.64	1.12	0.09
GEOM. STD. DEV. :	1.87	1.91	1.70
1ST QUARTILE :	24.25	0.77	0.05
2ND QUARTILE :	34.97	0.87	0.10
3RD QUARTILE :	52.32	1.46	0.10
VOL. MGT. MEAN :	43.04	1.26	0.09

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTHEASTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES	104	96	92	92	91	96	96
MAXIMUM	169.0	53.5	4.90	0.1023	0.1452	5.75	1.430
MINIMUM	0.0	4.5	3.99	0.0126	0.0220	0.15	0.040
RANGE	169.0	49.0	0.91	0.0897	0.1232	5.60	1.390
ARITH. MEAN	71.7	25.6	4.40	0.0451	0.0712	2.59	0.414
ARITH. STD. DEV	39.1	10.6	0.22	0.0223	0.0265	1.21	0.255
GEOM. MEAN	54.8	23.3	4.39	0.0399	0.0664	2.26	0.344
GEOM. STD. DEV.	2.6	1.6	1.05	1.6595	1.4672	1.78	1.905
1ST QUARTILE	44.8	17.3	4.24	0.0279	0.0510	1.57	0.240
2ND QUARTILE	66.0	25.6	4.38	0.0417	0.0677	2.45	0.375
3RD QUARTILE	94.6	30.9	4.56	0.0575	0.0865	3.38	0.530
VOL. WGT. MEAN	*******	24.1	*******	0.0416	0.0668	2.56	0.371

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES	93	93	89	93	92	91	94
MAXIMUM	1.090	0.790	1.530	0.185	0.755	0.365	0.880
MINIMUM	0.015	0.010	0.070	0.000	0.000	0.000	0.000
RANGE	1.075	0.780	1.460	0.185	0.755	0.365	0.880
ARITH. MEAN	0.221	0.150	0.452	0.039	0.071	0.069	0.289
ARITH. STD. DEV	0.199	0.108	0.304	0.039	0.112	0.072	0.195
GEOM. MEAN	0.159	0.122	0.362	0.026	0.041	0.048	0.208
GEOM. STD. DEV.	2.277	1.994	1.995	2.805	4.289	2.810	3.056
1ST QUARTILE	0.095	0.090	0.220	0.010	0.005	0.020	0.135
2ND QUARTILE	0.150	0.130	0.390	0.027	0.025	0.050	0.277
3RD QUARTILE	0.260	0.170	0.570	0.047	0.037	0.080	0.368
VOL. WGT. MEAN	0.199	0.136	0.464	0.035	0.065	0.058	0.308

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTHEASTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	90	93	93	91	91	92	93
MAXIMUM :	0.1390	22.00	5.00	40.72	290.90	17.87	1.00
MINIMUM :	0.0005	0.50	0.10	1.31	5.10	2.13	0.20
RANGE :	0.1385	21.50	4.90	39.41	285.80	15.74	0.80
ARITH. MEAN :	0.0188	3.66	0.86	6.59	52.67	7.05	0.89
ARITH. STD. DEV :	0.0285	4.13	1.11	5.98	60.83	3.41	0.28
GEOM. MEAN :	0.0080	2.38	0.60	5.04	33.48	6.28	0.80
GEOM. STD. DEV. :	3.8848	2.45	2.03	2.03	2.46	1.64	1.75
1ST QUARTILE :	0.0020	1.00	0.50	3.15	18.04	4.39	1.00
2ND QUARTILE :	0.0080	2.00	0.50	5.11	27.41	6.63	1.00
3RD QUARTILE :	0.0175	4.00	0.50	7.35	54.82	8.54	1.00
VOL. WGT. MEAN :	0.0184	3.33	0.78	5.60	45.48	6.70	0.87

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	91	91	92
MAXIMUM :	401.90	7.17	1.10
MINIMUM :	6.87	0.15	0.01
RANGE :	395.03	7.03	1.09
ARITH. MEAN :	58.98	1.63	0.13
ARITH. STD. DEV :	77.73	1.28	0.17
GEOM. MEAN :	36.37	1.28	0.09
GEOM. STD. DEV. :	2.46	2.01	2.09
1ST QUARTILE :	20.01	0.76	0.05
2ND QUARTILE :	31.83	1.15	0.10
3RD QUARTILE :	58.35	2.19	0.10
VOL. WGT. MEAN :	48.84	1.36	0.12

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTHWESTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	98	90	75	75	89	89	90
MAXIMUM :	183.6	47.7	6.02	0.0891	0.1302	5.80	1.170
MINIMUM :	0.0	2.1	4.05	0.0010	0.0136	0.10	0.000
RANGE :	183.6	45.6	1.97	0.0882	0.1166	5.70	1.170
ARITH. MEAN :	56.4	14.1	4.95	0.0179	0.0393	1.52	0.292
ARITH. STD. DEV :	38.4	9.5	0.46	0.0171	0.0198	1.05	0.231
GEOM. MEAN :	37.9	11.7	4.93	0.0113	0.0356	1.22	0.281
GEOM. STD. DEV. :	3.0	1.8	1.10	2.8542	1.5356	2.03	1.978
1ST QUARTILE :	24.5	8.0	4.59	0.0062	0.0253	0.82	0.150
2ND QUARTILE :	49.4	10.8	4.89	0.0118	0.0331	1.30	0.220
3RD QUARTILE :	85.0	18.3	5.19	0.0221	0.0456	1.67	0.390
VOL. WGT. MEAN :	*******	11.7	*******	0.0139	0.0360	1.34	0.234

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	80	87	81	82	85	82	84
MAXIMUM :	1.080	0.910	1.840	0.150	0.235	0.480	0.780
MINIMUM :	0.000	0.010	0.060	0.000	0.000	0.000	0.000
RANGE :	1.080	0.900	1.780	0.150	0.235	0.480	0.780
ARITH. MEAN :	0.223	0.150	0.413	0.038	0.043	0.079	0.245
ARITH. STD. DEV :	0.193	0.172	0.315	0.032	0.049	0.093	0.186
GEOM. MEAN :	0.167	0.100	0.314	0.031	0.038	0.072	0.151
GEOM. STD. DEV. :	2.364	2.347	2.171	2.239	3.402	3.505	4.110
1ST QUARTILE :	0.100	0.055	0.185	0.017	0.005	0.009	0.095
2ND QUARTILE :	0.195	0.090	0.335	0.030	0.025	0.042	0.225
3RD QUARTILE :	0.250	0.155	0.510	0.042	0.067	0.115	0.323
VOL. WGT. MEAN :	0.208	0.099	0.384	0.036	0.048	0.053	0.231

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTHWESTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	79	80	83	82	81	84	84
MAXIMUM :	0.0810	19.00	7.00	15.96	279.80	16.89	2.00
MINIMUM :	0.0005	0.50	0.10	1.28	4.33	0.85	0.20
RANGE :	0.0805	18.50	6.90	14.68	275.47	16.04	1.80
ARITH. MEAN :	0.0146	4.11	0.63	5.03	55.83	4.96	0.88
ARITH. STD. DEV :	0.0136	4.05	0.85	3.62	62.91	3.27	0.32
GEOM. MEAN :	0.0093	2.66	0.48	3.95	35.35	3.98	0.77
GEOM. STD. DEV. :	2.8647	2.66	1.91	2.03	2.55	2.00	1.84
1ST QUARTILE :	0.0050	2.00	0.50	2.28	20.44	2.41	1.00
2ND QUARTILE :	0.0095	3.00	0.50	3.96	31.71	4.34	1.00
3RD QUARTILE :	0.0210	5.00	0.50	6.18	53.10	7.04	1.00
VOL. WGT. MEAN :	0.0126	4.07	0.53	4.22	55.19	4.63	0.89

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	77	83	82
MAXIMUM :	351.70	4.00	1.10
MINIMUM :	6.93	0.20	0.01
RANGE :	344.77	3.80	1.09
ARITH. MEAN :	63.42	1.36	0.12
ARITH. STD. DEV :	69.04	0.80	0.14
GEOM. MEAN :	42.45	1.15	0.09
GEOM. STD. DEV. :	2.39	1.83	2.13
1ST QUARTILE :	24.60	0.78	0.05
2ND QUARTILE :	39.45	1.05	0.10
3RD QUARTILE :	68.10	1.85	0.10
VOL. WGT. MEAN :	58.06	1.22	0.13

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHEASTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	40	39	32	32	34	38	38
MAXIMUM :	156.3	63.8	4.78	0.1349	0.1328	6.05	1.490
MINIMUM :	9.8	13.0	3.87	0.0166	0.0182	0.95	0.240
RANGE :	146.5	50.8	0.91	0.1183	0.1146	5.10	1.250
ARITH. MEAN :	62.1	31.1	4.29	0.0568	0.0764	3.03	0.559
ARITH. STD. DEV :	31.6	11.8	0.20	0.0245	0.0297	1.28	0.267
GEOM. MEAN :	54.4	29.1	4.28	0.0517	0.0698	2.75	0.509
GEOM. STD. DEV. :	1.7	1.5	1.05	1.5724	1.5895	1.59	1.540
1ST QUARTILE :	37.5	21.6	4.18	0.0394	0.0575	1.95	0.375
2ND QUARTILE :	59.4	28.4	4.24	0.0569	0.0759	2.95	0.525
3RD QUARTILE :	79.9	37.4	4.40	0.0668	0.0921	3.70	0.630
VOL. WGT. MEAN :	*******	29.9	*******	0.0543	0.0740	2.98	0.495

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	36	34	37	35	37	33	38
MAXIMUM :	1.030	0.420	2.030	0.130	0.240	0.345	1.500
MINIMUM :	0.020	0.050	0.090	0.002	0.000	0.000	0.040
RANGE :	1.010	0.370	1.940	0.127	0.240	0.345	1.460
ARITH. MEAN :	0.317	0.176	0.594	0.050	0.045	0.075	0.415
ARITH. STD. DEV :	0.235	0.089	0.455	0.034	0.054	0.063	0.320
GEOM. MEAN :	0.242	0.156	0.467	0.038	0.073	0.065	0.319
GEOM. STD. DEV. :	2.215	1.653	2.017	2.367	3.333	2.133	2.139
1ST QUARTILE :	0.160	0.110	0.295	0.022	0.002	0.035	0.180
2ND QUARTILE :	0.220	0.160	0.420	0.037	0.030	0.055	0.336
3RD QUARTILE :	0.470	0.215	0.690	0.075	0.065	0.095	0.543
VOL. WGT. MEAN :	0.280	0.157	0.563	0.045	0.042	0.063	0.385

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHEASTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES :	37	38	38	36	37	36	38
MAXIMUM :	0.1250	19.00	5.00	35.97	191.10	20.16	2.00
MINIMUM :	0.0000	1.00	0.10	1.36	8.60	2.28	0.20
RANGE :	0.1250	18.00	4.90	34.61	182.50	17.88	1.80
ARITH. MEAN :	0.0210	5.08	0.76	8.77	46.97	7.95	0.88
ARITH. STD. DEV :	0.0286	4.62	1.08	6.78	40.84	3.76	0.33
GEOM. MEAN :	0.0114	3.60	0.50	7.05	34.91	7.14	0.80
GEOM. STD. DEV. :	3.7922	2.28	2.23	1.93	2.12	1.62	1.70
1ST QUARTILE :	0.0055	2.00	0.50	4.68	19.89	4.87	0.75
2ND QUARTILE :	0.0095	3.00	0.50	6.66	25.30	7.41	1.00
3RD QUARTILE :	0.0195	6.50	0.50	9.43	60.68	9.85	1.00
VOL. WGT. MEAN :	0.0203	4.50	0.70	7.88	41.41	7.20	0.89

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES :	37	36	38
MAXIMUM :	181.60	7.33	0.50
MINIMUM :	12.39	0.44	0.01
RANGE :	169.21	6.90	0.49
ARITH. MEAN :	51.40	1.58	0.12
ARITH. STD. DEV :	40.57	1.58	0.09
GEOM. MEAN :	39.37	1.15	0.09
GEOM. STD. DEV. :	2.08	2.10	2.08
1ST QUARTILE :	23.28	0.69	0.06
2ND QUARTILE :	32.83	0.87	0.10
3RD QUARTILE :	65.66	1.63	0.10
VOL. WGT. MEAN :	43.94	1.29	0.11

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHWESTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PRECIP. MM	CONDUCT. UMHO/CM	PH LAB	FREE H+ LAB MG/L	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	117	110	95	95	101	111	111
MAXIMUM :	178.0	81.8	5.05	0.2089	0.2540	11.80	1.950
MINIMUM :	16.0	18.6	3.68	0.0089	0.0172	1.85	0.290
RANGE :	162.0	63.2	1.37	0.2000	0.2368	9.95	1.660
ARITH. MEAN :	67.7	37.7	4.26	0.0624	0.0859	4.29	0.704
ARITH. STD. DEV :	32.1	13.0	0.23	0.0310	0.0392	1.72	0.305
GEOM. MEAN :	60.4	35.7	4.25	0.0550	0.0760	3.98	0.650
GEOM. STD. DEV. :	1.6	1.4	1.06	1.7070	1.7159	1.48	1.480
1ST QUARTILE :	45.5	27.6	4.11	0.0407	0.0600	2.88	0.495
2ND QUARTILE :	64.5	36.6	4.21	0.0610	0.0838	4.17	0.610
3RD QUARTILE :	81.6	44.3	4.39	0.0759	0.1046	5.30	0.855
VOL. WGT. MEAN :	*******	36.4	*******	0.0596	0.0860	4.10	0.631

	CALCIUM MG/L	CHLORIDE MG/L	KJELDAHL AS N MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L
# OF SAMPLES :	101	108	106	102	107	107	104
MAXIMUM :	2.170	0.730	1.900	0.490	0.240	0.655	1.600
MINIMUM :	0.090	0.070	0.000	0.005	0.000	0.005	0.068
RANGE :	2.080	0.660	1.900	0.485	0.240	0.650	1.532
ARITH. MEAN :	0.577	0.264	0.647	0.118	0.051	0.104	0.534
ARITH. STD. DEV :	0.488	0.145	0.369	0.112	0.049	0.097	0.310
GEOM. MEAN :	0.420	0.232	0.574	0.078	0.034	0.070	0.448
GEOM. STD. DEV. :	2.216	1.660	1.665	2.523	2.983	2.727	1.865
1ST QUARTILE :	0.245	0.160	0.380	0.040	0.020	0.042	0.320
2ND QUARTILE :	0.365	0.220	0.545	0.072	0.032	0.080	0.462
3RD QUARTILE :	0.730	0.335	0.810	0.178	0.065	0.132	0.682
VOL. WGT. MEAN :	0.523	0.235	0.603	0.102	0.047	0.090	0.508

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHWESTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 3,84 TO JAN 2,85

	PHOSPHOR	MANGANSE	NICKEL	ZINC	IRON	LEAD	VANADIUM
	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
# OF SAMPLES	105	100	109	107	98	106	109
MAXIMUM	0.0800	17.00	6.00	61.30	303.80	31.92	1.00
MINIMUM	0.0000	0.50	0.10	2.29	12.87	1.49	0.20
RANGE	0.0800	16.50	5.90	59.01	290.93	30.43	0.80
ARITH. MEAN	0.0150	4.22	0.65	12.82	59.51	10.21	0.82
ARITH. STD. DEV	0.0171	3.11	0.81	11.16	57.64	6.52	0.31
GEOM. MEAN	0.0133	3.45	0.48	9.73	43.33	8.44	0.73
GEOM. STD. DEV.	2.9348	1.87	2.05	2.04	2.13	1.87	1.80
1ST QUARTILE	0.0050	2.00	0.50	6.00	25.01	5.34	0.70
2ND QUARTILE	0.0090	3.00	0.50	8.46	40.91	7.51	1.00
3RD QUARTILE	0.0180	5.00	0.50	16.13	62.11	13.93	1.00
VOL. WGT. MEAN	0.0130	4.09	0.56	10.61	57.94	8.87	0.81

	ALUMINUM	COPPER	CADMIUM
	UG/L	UG/L	UG/L
# OF SAMPLES	97	108	109
MAXIMUM	331.30	7.76	2.80
MINIMUM	7.33	0.14	0.05
RANGE	323.97	7.62	2.75
ARITH. MEAN	61.14	1.59	0.22
ARITH. STD. DEV	57.72	1.48	0.37
GEOM. MEAN	46.52	1.13	0.13
GEOM. STD. DEV.	2.01	2.30	2.28
1ST QUARTILE	28.96	0.74	0.10
2ND QUARTILE	42.43	0.92	0.10
3RD QUARTILE	67.42	2.14	0.20
VOL. WGT. MEAN	60.59	1.30	0.21

PART V

SUMMARY STATISTICS OF WET DEPOSITION BY STATION

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : ALVINSTON/CUMULATIVE PRECIP. 805

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	10	11	11	11	11	12
MAXIMUM :	134.8	11.4053	19.3920	690.10	81.624	240.000	45.600
MINIMUM :	32.0	0.5044	1.3003	105.60	27.200	11.638	8.800
RANGE :	102.8	10.9008	18.0917	584.50	54.424	228.362	36.800
ARITH. MEAN :	77.8	4.4807	7.2675	301.69	47.692	58.209	20.791
ARITH. STD. DEV :	28.7	3.1301	5.6581	170.72	18.148	67.119	11.103
GEOM. MEAN :	72.8	3.4612	5.5172	263.57	44.832	36.602	18.609
GEOM. STD. DEV. :	1.5	2.3344	2.2395	1.72	1.439	2.649	1.610
1ST QUARTILE :	54.8	2.2383	2.5964	169.10	32.548	13.560	14.216
2ND QUARTILE :	73.8	3.7738	5.1936	222.50	37.820	28.490	16.320
3RD QUARTILE :	90.5	4.9670	8.4876	367.67	57.538	77.159	24.498
VOL. WGT. MEAN :	########	4.4681	7.1953	307.22	48.567	55.338	20.211

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	11	11	11	12	12	11	10
MAXIMUM :	109.564	28.294	13.545	24.440	120.000	4.1538	0.7520
MINIMUM :	13.018	1.900	0.190	2.610	3.849	0.0000	0.0960
RANGE :	96.546	26.394	13.355	21.830	116.151	4.1538	0.6560
ARITH. MEAN :	41.942	8.955	5.013	7.556	42.448	0.9883	0.3768
ARITH. STD. DEV :	32.060	8.479	4.102	5.840	35.232	1.1641	0.2367
GEOM. MEAN :	33.353	5.915	2.936	6.208	30.036	0.7170	0.3056
GEOM. STD. DEV. :	1.983	2.638	4.007	1.871	2.544	2.7121	2.0602
1ST QUARTILE :	20.550	2.018	1.560	3.840	20.119	0.2575	0.1669
2ND QUARTILE :	24.900	4.965	3.557	7.001	21.060	0.4800	0.3225
3RD QUARTILE :	55.750	13.727	6.269	7.583	72.190	1.2595	0.4828
VOL. WGT. MEAN :	42.711	9.119	5.105	7.345	41.264	1.0065	0.3758

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : ALVINSTON/CUMULATIVE PRECIP. #05

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES	12	12	10	11	12	10	12
MAXIMUM	0.2828	3.233	8.6405	1.5637	0.134	9.261	0.3216
MINIMUM	0.0152	0.282	1.2736	0.2231	0.019	1.279	0.0485
RANGE	0.2668	2.951	7.3669	1.3407	0.115	7.982	0.2731
ARITH. MEAN	0.0584	1.159	3.5940	0.6662	0.067	3.532	0.1323
ARITH. STD. DEV	0.0727	0.777	2.2969	0.4252	0.038	2.303	0.0953
GEOM. MEAN	0.0402	0.955	2.9983	0.5541	0.056	3.022	0.1064
GEOM. STD. DEV.	2.2224	1.946	1.9010	1.9034	1.933	1.771	1.9678
1ST QUARTILE	0.0237	0.595	1.4901	0.2751	0.031	1.892	0.0560
2ND QUARTILE	0.0379	1.150	3.6101	0.4685	0.066	2.963	0.0946
3RD QUARTILE	0.0620	1.383	4.0306	0.9070	0.090	4.159	0.1876
VOL. WGT. MEAN	0.0568	1.127	3.5839	0.6785	0.065	3.522	0.1286

	CADMIUM MG/M**2
# OF SAMPLES	12
MAXIMUM	0.26328
MINIMUM	0.00600
RANGE	0.25520
ARITH. MEAN	0.05660
ARITH. STD. DEV	0.07626
GEOM. MEAN	0.03271
GEOM. STD. DEV.	2.71121
1ST QUARTILE	0.01782
2ND QUARTILE	0.02705
3RD QUARTILE	0.04603
VOL. WGT. MEAN	0.05502

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : ATTAWAPISKAT/CUMULATIVE PRECIP. 928

PERIOD OF REPORT : JAN 3, 84 TO FEB 28,84 PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	2	0	0	0	0	0	0
MAXIMUM :	0.6	********	********	********	********	********	********
MINIMUM :	0.0	********	********	********	********	********	********
RANGE :	0.6	********	********	********	********	********	********
ARITH. MEAN :	0.3	********	********	********	********	********	********
ARITH. STD. DEV :	0.4	********	********	********	********	********	********
GEOM. MEAN :	0.7	********	********	********	********	********	********
GEOM. STD. DEV. :	1.3	********	********	********	********	********	********
1ST QUARTILE :	********	********	********	********	********	********	********
2ND QUARTILE :	********	********	********	********	********	********	********
3RD QUARTILE :	********	********	********	********	********	********	********
VOL. WGT. MEAN :	0.0	********	********	********	********	********	********

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	0	0	0	0	0	0	0
MAXIMUM :	********	********	********	********	********	********	********
MINIMUM :	********	********	********	********	********	********	********
RANGE :	********	********	********	********	********	********	********
ARITH. MEAN :	********	********	********	********	********	********	********
ARITH. STD. DEV :	********	********	********	********	********	********	********
GEOM. MEAN :	********	********	********	********	********	********	********
GEOM. STD. DEV. :	********	********	********	********	********	********	********
1ST QUARTILE :	********	********	********	********	********	********	********
2ND QUARTILE :	********	********	********	********	********	********	********
3RD QUARTILE :	********	********	********	********	********	********	********
VOL. WGT. MEAN :	********	********	********	********	********	********	********

***** : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : ATTAWAPISKAT/CUMULATIVE PRECIP. 828

PERIOD OF REPORT : JAN 3, 84 TO FEB 28,84 PAGE : 2

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES :	0	0	0	0	0	0	0
MAXIMUM :	*********	*********	*********	*********	*********	*********	*********
MINIMUM :	*********	*********	*********	*********	*********	*********	*********
RANGE :	*********	*********	*********	*********	*********	*********	*********
ARITH. MEAN :	*********	*********	*********	*********	*********	*********	*********
ARITH. STD. DEV :	*********	*********	*********	*********	*********	*********	*********
GEOM. MEAN :	*********	*********	*********	*********	*********	*********	*********
GEOM. STD. DEV. :	*********	*********	*********	*********	*********	*********	*********
1ST QUARTILE :	*********	*********	*********	*********	*********	*********	*********
2ND QUARTILE :	*********	*********	*********	*********	*********	*********	*********
3RD QUARTILE :	*********	*********	*********	*********	*********	*********	*********
VOL. WGT. MEAN :	*********	*********	*********	*********	*********	*********	*********

	CADMIUM MG/M**2
# OF SAMPLES :	0
MAXIMUM :	**********
MINIMUM :	**********
RANGE :	**********
ARITH. MEAN :	**********
ARITH. STD. DEV :	**********
GEOM. MEAN :	**********
GEOM. STD. DEV. :	**********
1ST QUARTILE :	**********
2ND QUARTILE :	**********
3RD QUARTILE :	**********
VOL. WGT. MEAN :	**********

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : AZURE LAKE/CUMULATIVE PRECIP. #26

PERIOD OF REPORT : JAN 9, 84 TO DEC 4,84 PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	11	11	11	11	11	11	10
MAXIMUM :	169.8	3.8716	8.4500	295.75	37.560	53.210	15.210
MINIMUM :	20.6	1.1008	2.0580	37.32	3.730	2.108	0.810
RANGE :	148.4	2.7708	6.3920	258.43	33.830	51.102	14.400
ARITH. MEAN :	68.5	2.1132	3.8423	146.67	19.804	11.693	6.701
ARITH. STD. DEV :	42.2	0.8468	1.8729	92.84	9.926	14.759	4.767
GEOM. MEAN :	58.1	1.9715	3.5135	119.45	17.047	7.003	4.866
GEOM. STD. DEV. :	1.8	1.4742	1.5324	2.01	1.893	2.777	2.578
1ST QUARTILE :	33.1	1.3833	2.4268	55.26	12.007	2.363	2.146
2ND QUARTILE :	57.6	1.9284	2.9327	120.52	17.122	6.540	6.321
3RD QUARTILE :	81.8	2.4634	4.4404	215.87	26.561	13.116	8.746
VOL. WGT. MEAN :	########	2.1132	3.8423	146.67	19.804	11.693	6.805

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	11	11	11	10	11	11	11
MAXIMUM :	84.500	8.138	26.070	5.797	43.940	8.0128	0.8764
MINIMUM :	5.222	0.263	0.202	0.202	2.611	0.0746	0.0373
RANGE :	79.278	7.875	25.867	5.594	41.329	7.9382	0.8391
ARITH. MEAN :	29.638	1.758	5.255	3.102	18.250	1.4209	0.2340
ARITH. STD. DEV :	26.621	2.313	7.812	2.214	15.312	2.4021	0.2613
GEOM. MEAN :	19.728	0.977	1.709	2.145	12.259	0.4223	0.1342
GEOM. STD. DEV. :	2.656	2.986	5.573	2.914	2.737	5.1677	3.0829
1ST QUARTILE :	6.972	0.342	0.220	1.084	4.530	0.0939	0.0408
2ND QUARTILE :	14.317	0.721	1.180	2.474	11.452	0.1809	0.1136
3RD QUARTILE :	50.320	2.070	6.917	5.352	30.835	1.7224	0.2875
VOL. WGT. MEAN :	29.638	1.758	5.255	3.151	18.250	1.4209	0.2340

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : AZURE LAKE/CUMULATIVE PRECIP. #26

PERIOD OF REPORT : JAN 9, 84 TO DEC 4,84

	NICKEL MG/MM#2	ZINC MG/MM#2	IRON MG/MM#2	LEAD MG/MM#2	VANADIUM MG/MM#2	ALUMINUM MG/MM#2	COPPER MG/MM#2
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	0.4050	1.142	11.6874	0.7600	0.169	18.542	0.3338
MINIMUM :	0.0103	0.117	0.6965	0.1085	0.011	0.737	0.0367
RANGE :	0.3947	1.025	10.9909	0.6515	0.158	17.805	0.2970
ARITH. MEAN :	0.0787	0.386	3.2786	0.3598	0.065	4.151	0.1131
ARITH. STD. DEV :	0.1162	0.267	3.3247	0.2142	0.046	5.326	0.0843
GEOM. MEAN :	0.0406	0.331	2.1528	0.3043	0.050	2.322	0.0920
GEOM. STD. DEV. :	3.0956	1.744	2.6020	1.6518	2.225	2.948	1.9328
1ST QUARTILE :	0.0140	0.223	0.8437	0.1984	0.026	0.920	0.0480
2ND QUARTILE :	0.0354	0.332	1.5604	0.2186	0.050	1.310	0.0863
3RD QUARTILE :	0.0679	0.394	4.5167	0.5379	0.082	5.493	0.1403
VOL. WGT. MEAN :	0.0787	0.386	3.2786	0.3598	0.065	4.151	0.1131

	CADMIUM MG/MM#2
# OF SAMPLES :	11
MAXIMUM :	0.01690
MINIMUM :	0.00206
RANGE :	0.01484
ARITH. MEAN :	0.00780
ARITH. STD. DEV :	0.00541
GEOM. MEAN :	0.00612
GEOM. STD. DEV. :	2.11814
1ST QUARTILE :	0.00312
2ND QUARTILE :	0.00670
3RD QUARTILE :	0.01073
VOL. WGT. MEAN :	0.00780

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BEAR ISLAND/CUMULATIVE PRECIP. 824

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES	12	10	10	11	11	11	11
MAXIMUM	159.1	5.8802	9.0051	532.98	44.548	27.540	28.638
MINIMUM	13.7	0.7840	1.3335	16.62	3.072	0.875	2.450
RANGE	145.4	5.0961	7.6716	516.36	41.476	26.665	26.188
ARITH. MEAN	61.6	2.9846	4.1958	192.26	22.260	13.257	9.983
ARITH. STD. DEV	37.9	1.6781	2.6507	148.95	12.907	10.252	7.594
GEOM. MEAN	51.4	2.4860	3.4594	133.70	18.071	9.051	7.779
GEOM. STD. DEV.	1.9	1.9870	1.9579	2.77	2.146	2.851	2.125
1ST QUARTILE	45.7	1.1282	1.6813	46.87	10.581	5.024	3.385
2ND QUARTILE	54.5	2.8050	3.8643	161.47	20.700	6.948	8.220
3RD QUARTILE	73.5	3.9086	5.2068	248.95	28.765	23.610	11.780
VOL. WGT. MEAN	########	2.9505	4.3651	192.38	22.275	13.265	9.989

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHORUS MG/M**2	MANGANESE MG/M**2
# OF SAMPLES	9	11	10	10	10	9	11
MAXIMUM	170.237	5.568	19.887	12.728	106.597	14.3190	0.3240
MINIMUM	3.500	0.175	0.044	0.788	1.260	0.0768	0.0175
RANGE	166.737	5.393	19.844	11.940	105.337	14.2422	0.3065
ARITH. MEAN	38.625	2.346	7.292	4.779	21.441	2.1856	0.1472
ARITH. STD. DEV	51.744	1.921	7.665	4.250	31.329	4.5702	0.1122
GEOM. MEAN	20.545	1.519	2.671	3.105	9.659	0.7062	0.1005
GEOM. STD. DEV.	3.350	3.029	7.035	2.797	4.048	4.3051	2.8193
1ST QUARTILE	7.629	0.521	0.624	1.126	2.316	0.3000	0.0301
2ND QUARTILE	22.255	1.695	3.595	3.324	14.505	0.6245	0.1130
3RD QUARTILE	31.050	3.980	12.450	7.235	19.890	1.0110	0.2145
VOL. WGT. MEAN	35.138	2.348	7.209	4.724	21.196	1.9883	0.1473

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BEAR ISLAND/CUMULATIVE PRECIP. 824

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/MM**2	MG/MM**2	MG/MM**2	MG/MM**2	MG/MM**2	MG/MM**2	MG/MM**2
# OF SAMPLES	11	11	11	11	11	11	11
MAXIMUM	0.0795	1.487	11.2320	1.3676	0.159	12.733	0.5788
MINIMUM	0.0192	0.084	0.2593	0.1384	0.014	0.296	0.0454
RANGE	0.0603	1.402	10.9726	1.2292	0.145	12.437	0.5335
ARITH. MEAN	0.0378	0.441	2.7225	0.4850	0.055	2.830	0.1381
ARITH. STD. DEV	0.0178	0.427	3.3692	0.3524	0.041	3.643	0.1552
GEOM. MEAN	0.0346	0.309	1.4819	0.3890	0.044	1.661	0.0975
GEOM. STD. DEV.	1.5112	2.400	3.2156	2.0217	2.103	2.815	2.2011
1ST QUARTILE	0.0267	0.118	0.4950	0.1803	0.017	0.797	0.0483
2ND QUARTILE	0.0282	0.330	1.2681	0.3797	0.053	1.214	0.0684
3RD QUARTILE	0.0428	0.387	2.8076	0.6184	0.056	2.525	0.1367
VOL. WGT. MEAN	0.0376	0.441	2.7243	0.4854	0.055	2.832	0.1382

	CADMIUM
	MG/MM**2
# OF SAMPLES	11
MAXIMUM	0.06300
MINIMUM	0.00137
RANGE	0.06163
ARITH. MEAN	0.01634
ARITH. STD. DEV	0.01604
GEOM. MEAN	0.00968
GEOM. STD. DEV.	3.23593
1ST QUARTILE	0.00271
2ND QUARTILE	0.00985
3RD QUARTILE	0.02530
VOL. WGT. MEAN	0.01635

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CAMPBELLFORD/CUMULATIVE PRECIP. #13

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES	13	11	11	12	12	12	12
MAXIMUM	139.0	10.7898	13.6776	597.70	107.030	84.790	22.240
MINIMUM	27.5	2.2353	0.9102	61.88	20.720	7.600	4.440
RANGE	111.5	8.5546	12.7674	535.82	86.310	77.190	17.800
ARITH. MEAN	69.0	4.4323	5.6265	240.48	43.072	30.923	11.955
ARITH. STD. DEV	39.5	2.8458	3.9874	159.56	25.092	20.049	5.789
GEOM. MEAN	60.0	3.8571	4.5333	201.61	38.161	25.548	10.584
GEOM. STD. DEV.	1.7	1.6690	2.0526	1.85	1.626	1.972	1.706
1ST QUARTILE	37.0	2.6333	3.4610	154.01	27.183	20.176	6.129
2ND QUARTILE	51.5	3.2493	4.1781	206.30	33.353	31.260	13.087
3RD QUARTILE	74.0	4.2548	5.3657	250.20	53.140	36.045	15.392
VOL. WGT. MEAN	########	4.5633	6.0814	257.18	46.064	33.071	12.785

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES	11	12	10	12	12	11	12
MAXIMUM	70.890	18.070	6.900	9.360	61.410	6.3750	0.6950
MINIMUM	12.650	0.962	0.000	1.785	10.725	0.0497	0.0760
RANGE	58.240	17.107	6.900	7.575	50.685	6.3253	0.6190
ARITH. MEAN	37.084	4.485	2.856	5.246	30.042	1.1777	0.2461
ARITH. STD. DEV	21.599	4.432	2.608	2.489	16.883	1.8118	0.1681
GEOM. MEAN	31.347	3.452	1.809	4.643	25.933	0.5695	0.2039
GEOM. STD. DEV.	1.867	2.017	3.288	1.717	1.775	3.5711	1.9036
1ST QUARTILE	15.635	2.785	0.286	2.775	15.177	0.2595	0.1314
2ND QUARTILE	33.200	3.510	2.717	5.389	27.045	0.5278	0.2120
3RD QUARTILE	51.315	4.422	3.912	7.060	38.137	0.8765	0.2860
VOL. WGT. MEAN	38.180	4.797	2.872	5.610	32.129	1.2125	0.2632

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CAMPBELLFORD/CUMULATIVE PRECIP. #13

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	0.0695	1.292	6.4204	1.3180	0.139	6.338	0.3450
MINIMUM :	0.0137	0.236	1.1157	0.1841	0.019	1.633	0.0405
RANGE :	0.0557	1.056	5.3047	1.1339	0.120	4.705	0.3045
ARITH. MEAN :	0.0354	0.542	2.7815	0.6123	0.060	2.961	0.1010
ARITH. STD. DEV :	0.0192	0.343	1.6373	0.3280	0.040	1.506	0.0898
GEOM. MEAN :	0.0310	0.465	2.4039	0.5300	0.050	2.677	0.0785
GEOM. STD. DEV. :	1.7098	1.734	1.7468	1.7993	1.823	1.569	1.9751
1ST QUARTILE :	0.0203	0.304	1.6432	0.4112	0.035	1.939	0.0479
2ND QUARTILE :	0.0301	0.376	2.2602	0.5404	0.046	2.126	0.0569
3RD QUARTILE :	0.0463	0.686	3.7273	0.8496	0.069	4.082	0.1295
VOL. WGT. MEAN :	0.0379	0.579	2.9747	0.6549	0.064	3.167	0.1080

	CADMIUM
	MG/M**2
# OF SAMPLES :	12
MAXIMUM :	0.01728
MINIMUM :	0.00331
RANGE :	0.01397
ARITH. MEAN :	0.00720
ARITH. STD. DEV :	0.00485
GEOM. MEAN :	0.00608
GEOM. STD. DEV. :	1.77849
1ST QUARTILE :	0.00375
2ND QUARTILE :	0.00515
3RD QUARTILE :	0.01005
VOL. WGT. MEAN :	0.00771

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CLOYNE/CUMULATIVE PRECIP. #14

PERIOD OF REPORT : DEC 4, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH6.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	1	1	0	1	1	1	1
MAXIMUM :	49.4	2.1565	********	113.63	25.690	19.761	12.845
MINIMUM :	49.4	2.1565	********	113.63	25.690	19.761	12.845
RANGE :	0.0	0.0000	********	0.00	0.000	0.000	0.000
ARITH. MEAN :	********	********	********	********	********	********	********
ARITH. STD. DEV :	********	********	********	********	********	********	********
GEOM. MEAN :	********	********	********	********	********	********	********
GEOM. STD. DEV. :	********	********	********	********	********	********	********
1ST QUARTILE :	********	********	********	********	********	********	********
2ND QUARTILE :	********	********	********	********	********	********	********
3RD QUARTILE :	********	********	********	********	********	********	********
VOL. WGT. MEAN :	********	********	********	********	********	********	********

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	1	1	1	1	1	1	1
MAXIMUM :	17.291	1.482	3.458	4.940	12.845	0.4446	0.0988
MINIMUM :	17.291	1.482	3.458	4.940	12.845	0.4446	0.0988
RANGE :	0.000	0.000	0.000	0.000	0.000	0.0000	0.0000
ARITH. MEAN :	********	********	********	********	********	********	********
ARITH. STD. DEV :	********	********	********	********	********	********	********
GEOM. MEAN :	********	********	********	********	********	********	********
GEOM. STD. DEV. :	********	********	********	********	********	********	********
1ST QUARTILE :	********	********	********	********	********	********	********
2ND QUARTILE :	********	********	********	********	********	********	********
3RD QUARTILE :	********	********	********	********	********	********	********
VOL. WGT. MEAN :	********	********	********	********	********	********	********

****** : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CLOYNE/CUMULATIVE PRECIP. #14

PERIOD OF REPORT : DEC 4, 84 TO JAN 2,85 PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	1	1	1	1	1	1	1
MAXIMUM :	0.0247	0.327	1.1358	0.3612	0.010	1.559	0.1297
MINIMUM :	0.0247	0.327	1.1358	0.3612	0.010	1.559	0.1297
RANGE :	0.0000	0.000	0.0000	0.0000	0.000	0.000	0.0000
ARITH. MEAN :	********	********	********	********	********	********	********
ARITH. STD. DEV :	********	********	********	********	********	********	********
GEOM. MEAN :	********	********	********	********	********	********	********
GEOM. STD. DEV. :	********	********	********	********	********	********	********
1ST QUARTILE :	********	********	********	********	********	********	********
2ND QUARTILE :	********	********	********	********	********	********	********
3RD QUARTILE :	********	********	********	********	********	********	********
VOL. WGT. MEAN :	********	********	********	********	********	********	********

	CADMIUM
	MG/M**2
# OF SAMPLES :	1
MAXIMUM :	0.02470
MINIMUM :	0.02470
RANGE :	0.00000
ARITH. MEAN :	**********
ARITH. STD. DEV :	**********
GEOM. MEAN :	**********
GEOM. STD. DEV. :	**********
1ST QUARTILE :	**********
2ND QUARTILE :	**********
3RD QUARTILE :	**********
VOL. WGT. MEAN :	**********

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : COLCHESTER/CUMULATIVE PRECIP. #01

PERIOD OF REPORT : JAN 3, 84 TO JAN 1,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	12	12	13	13	13	13
MAXIMUM :	126.0	8.3340	11.7936	541.80	62.790	86.940	39.330
MINIMUM :	22.0	0.8278	1.6150	51.70	19.760	8.550	10.540
RANGE :	104.0	7.5061	10.1786	490.10	43.030	78.390	28.790
ARITH. MEAN :	61.2	3.9925	5.6996	268.94	38.245	34.292	19.268
ARITH. STD. DEV :	27.9	2.6574	3.2218	146.39	16.500	25.857	9.313
GEOM. MEAN :	55.1	3.0882	4.8344	224.75	34.938	26.229	17.633
GEOM. STD. DEV. :	1.6	2.2398	1.8677	1.98	1.565	2.188	1.520
1ST QUARTILE :	41.0	1.5903	3.1788	129.92	22.365	12.195	12.590
2ND QUARTILE :	58.0	3.8413	4.8049	237.75	33.330	27.955	15.840
3RD QUARTILE :	70.5	5.9716	8.1433	357.15	49.060	38.400	19.445
VOL. WGT. MEAN :	*********	4.0352	5.6289	268.94	38.245	34.292	19.268

	K.JELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	81.640	18.720	16.560	34.060	110.400	1.9800	1.2240
MINIMUM :	7.920	1.425	0.000	1.705	4.620	0.0295	0.0440
RANGE :	73.720	17.295	16.560	32.355	105.780	1.9505	1.1800
ARITH. MEAN :	40.118	7.759	3.790	8.118	34.011	0.8244	0.3502
ARITH. STD. DEV :	26.746	5.753	4.902	8.457	30.889	0.6438	0.3582
GEOM. MEAN :	31.515	5.783	1.703	5.755	23.651	0.5383	0.2268
GEOM. STD. DEV. :	2.148	2.325	4.582	2.303	2.469	3.1990	2.6798
1ST QUARTILE :	17.835	2.622	0.467	2.932	11.420	0.3075	0.1210
2ND QUARTILE :	29.365	5.520	1.490	5.520	19.517	0.7260	0.2315
3RD QUARTILE :	50.745	9.922	4.500	8.347	39.055	0.9020	0.3320
VOL. WGT. MEAN :	40.118	7.759	3.790	8.118	34.011	0.8244	0.3502

***** : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : COLCHESTER/CUMULATIVE PRECIP. #01

PERIOD OF REPORT : JAN 3, 84 TO JAN 1,85

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	0.1320	2.652	21.8736	2.1082	0.126	21.499	0.3535
MINIMUM :	0.0057	0.322	0.7336	0.2124	0.010	0.737	0.0244
RANGE :	0.1263	2.330	21.1400	1.8878	0.116	20.762	0.3291
ARITH. MEAN :	0.0421	0.979	4.8202	0.7242	0.053	4.905	0.0967
ARITH. STD. DEV :	0.0341	0.767	6.2435	0.5314	0.034	5.949	0.0893
GEOM. MEAN :	0.0317	0.778	2.7649	0.5771	0.042	3.021	0.0725
GEOM. STD. DEV. :	2.2704	1.976	2.7988	2.0204	2.070	2.611	2.1258
1ST QUARTILE :	0.0195	0.430	1.5090	0.2825	0.023	1.529	0.0388
2ND QUARTILE :	0.0337	0.716	1.9225	0.6059	0.041	2.449	0.0605
3RD QUARTILE :	0.0415	0.984	3.3825	0.7732	0.070	3.689	0.0966
VOL. MGT. MEAN :	0.0421	0.979	4.8202	0.7242	0.053	4.905	0.0967

	CADMIUM MG/M**2
# OF SAMPLES :	13
MAXIMUM :	0.06188
MINIMUM :	0.00310
RANGE :	0.05878
ARITH. MEAN :	0.01148
ARITH. STD. DEV :	0.01585
GEOM. MEAN :	0.00752
GEOM. STD. DEV. :	2.23409
1ST QUARTILE :	0.00448
2ND QUARTILE :	0.00550
3RD QUARTILE :	0.00755
VOL. MGT. MEAN :	0.01148

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : COLDWATER/CUMULATIVE PRECIP. #12

PERIOD OF REPORT : JAN 3, 84 TO DEC 31,84

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	12	12	13	13	13	13
MAXIMUM :	132.0	7.1018	9.4512	412.50	59.400	111.240	26.500
MINIMUM :	40.0	1.0495	1.6430	68.52	14.310	8.960	6.000
RANGE :	92.0	6.0522	7.8082	343.98	45.090	102.280	20.500
ARITH. MEAN :	74.5	3.6988	5.2956	225.05	36.659	28.266	14.986
ARITH. STD. DEV :	26.3	1.7963	2.1042	115.24	12.956	27.479	5.662
GEOM. MEAN :	70.7	3.3083	4.8590	196.31	34.030	21.927	13.939
GEOM. STD. DEV. :	1.4	1.6700	1.5875	1.76	1.541	1.931	1.509
1ST QUARTILE :	56.6	2.7618	3.6694	128.40	28.550	14.860	11.125
2ND QUARTILE :	63.4	3.4222	5.4217	190.50	37.683	18.570	14.410
3RD QUARTILE :	86.5	3.9554	6.5265	294.20	42.612	22.930	16.745
VOL. WGT. MEAN :	#########	3.6119	5.4073	225.05	36.659	28.266	14.986

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	13	13	13	13	13	12	12
MAXIMUM :	77.000	16.995	14.575	13.419	65.450	3.0900	0.7700
MINIMUM :	14.560	0.697	0.000	0.239	7.994	0.0000	0.0560
RANGE :	62.440	16.297	14.575	13.179	57.456	3.0900	0.7140
ARITH. MEAN :	38.588	4.363	3.801	5.685	30.208	0.8097	0.2216
ARITH. STD. DEV :	20.341	4.579	4.263	3.986	17.045	0.8856	0.1844
GEOM. MEAN :	34.156	3.043	2.435	3.681	25.816	0.5433	0.1798
GEOM. STD. DEV. :	1.664	2.321	2.636	3.386	1.829	3.1187	1.8926
1ST QUARTILE :	23.650	1.656	1.049	2.400	17.076	0.1250	0.1221
2ND QUARTILE :	27.334	3.062	2.202	5.358	24.215	0.5820	0.1800
3RD QUARTILE :	48.540	3.540	3.905	7.640	38.030	1.1793	0.2520
VOL. WGT. MEAN :	38.588	4.363	3.801	5.685	30.208	0.7907	0.2185

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : COLDWATER/CUMULATIVE PRECIP. #12

PERIOD OF REPORT : JAN 3, 84 TO DEC 31,84

	NICKEL MG/MM**2	ZINC MG/MM**2	IRON MG/MM**2	LEAD MG/MM**2	VANADIUM MG/MM**2	ALUMINUM MG/MM**2	COPPER MG/MM**2
# OF SAMPLES	13	13	13	13	13	12	13
MAXIMUM	0.0660	0.707	14.5477	0.9396	0.132	13.860	0.3766
MINIMUM	0.0186	0.157	0.6842	0.1453	0.016	1.014	0.0205
RANGE	0.0474	0.549	13.8635	0.7943	0.116	12.846	0.3562
ARITH. MEAN	0.0339	0.394	3.9639	0.4974	0.064	3.335	0.0977
ARITH. STD. DEV	0.0140	0.164	4.4794	0.2194	0.033	3.453	0.0881
GEOM. MEAN	0.0317	0.362	2.6517	0.4492	0.055	2.543	0.0780
GEOM. STD. DEV.	1.4499	1.542	2.3632	1.6414	1.538	1.984	1.9221
1ST QUARTILE	0.0252	0.285	1.5631	0.3449	0.046	1.853	0.0580
2ND QUARTILE	0.0288	0.354	2.2659	0.4249	0.058	2.473	0.0699
3RD QUARTILE	0.0330	0.444	2.8715	0.6187	0.066	3.201	0.0898
VOL. WGT. MEAN	0.0339	0.394	3.9639	0.4974	0.064	3.288	0.0977

	CADMIUM MG/MM**2
# OF SAMPLES	13
MAXIMUM	0.01100
MINIMUM	0.00265
RANGE	0.00835
ARITH. MEAN	0.00620
ARITH. STD. DEV	0.00263
GEOM. MEAN	0.00565
GEOM. STD. DEV.	1.58985
1ST QUARTILE	0.00353
2ND QUARTILE	0.00599
3RD QUARTILE	0.00730
VOL. WGT. MEAN	0.00620

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DALHOUSIE MILLS/CUMULATIVE PRECIP. #16

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES	13	10	11	12	12	12	11
MAXIMUM	156.3	7.6640	11.3474	437.64	72.563	50.050	24.360
MINIMUM	25.1	0.9889	1.3052	44.80	16.000	5.760	5.070
RANGE	131.2	6.6752	10.0422	392.84	56.563	44.290	19.290
ARITH. MEAN	67.3	3.9476	5.3651	212.28	36.651	24.263	12.784
ARITH. STD. DEV	36.9	2.2007	3.0994	120.25	16.375	13.031	6.043
GEOM. MEAN	59.4	3.3253	4.4696	180.43	33.467	20.493	11.482
GEOM. STD. DEV.	1.7	1.9377	1.9634	1.88	1.567	1.932	1.644
1ST QUARTILE	38.5	1.8826	2.4416	146.25	22.759	14.654	6.940
2ND QUARTILE	58.8	4.1717	4.5461	183.18	35.855	23.320	10.960
3RD QUARTILE	72.4	4.5781	7.2403	257.75	46.770	32.722	16.559
VOL. WGT. MEAN	#########	3.6424	5.5394	209.21	36.122	23.058	11.813

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES	13	12	13	11	13	13	13
MAXIMUM	108.550	6.175	9.300	13.110	83.250	8.1250	0.9253
MINIMUM	11.520	0.960	0.000	1.560	10.816	0.0570	0.1170
RANGE	97.030	5.215	9.300	11.550	72.434	8.0680	0.8083
ARITH. MEAN	47.373	3.391	4.074	6.380	33.697	1.8733	0.3464
ARITH. STD. DEV	29.577	1.707	3.553	3.441	17.551	2.3650	0.2291
GEOM. MEAN	39.759	2.902	2.742	5.490	30.186	0.8827	0.2917
GEOM. STD. DEV.	1.873	1.886	2.794	1.837	1.633	4.2251	1.8134
1ST QUARTILE	25.857	1.971	0.850	3.445	22.782	0.4317	0.1909
2ND QUARTILE	40.227	3.483	2.718	5.436	31.440	1.0163	0.2300
3RD QUARTILE	50.875	4.917	6.866	8.057	36.512	1.7758	0.3994
VOL. WGT. MEAN	47.373	3.223	4.074	5.895	33.697	1.8733	0.3464

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DALHOUSIE MILLS/CUMULATIVE PRECIP. #16

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES :	13	13	13	12	13	13	12
MAXIMUM :	0.3250	1.752	6.6625	1.2360	0.156	7.553	0.2915
MINIMUM :	0.0117	0.289	0.7024	0.2883	0.025	1.033	0.0273
RANGE :	0.3133	1.463	5.9601	0.9477	0.131	6.519	0.2642
ARITH. MEAN :	0.0772	0.714	3.2510	0.5784	0.065	3.204	0.0854
ARITH. STD. DEV :	0.0954	0.501	1.6011	0.2393	0.038	1.631	0.0687
GEOM. MEAN :	0.0469	0.597	2.8236	0.5430	0.057	2.875	0.0708
GEOM. STD. DEV. :	2.6449	1.802	1.8279	1.4304	1.705	1.627	1.8091
1ST QUARTILE :	0.0234	0.350	2.0826	0.4501	0.035	2.119	0.0515
2ND QUARTILE :	0.0395	0.508	3.1087	0.5050	0.056	2.857	0.0691
3RD QUARTILE :	0.0610	0.647	3.8561	0.6612	0.065	3.535	0.0931
VOL. WGT. MEAN :	0.0772	0.714	3.2510	0.5654	0.065	3.204	0.0851

	CADMIUM MG/M**2
# OF SAMPLES :	13
MAXIMUM :	0.01665
MINIMUM :	0.00320
RANGE :	0.01345
ARITH. MEAN :	0.00890
ARITH. STD. DEV :	0.00500
GEOM. MEAN :	0.00756
GEOM. STD. DEV. :	1.83878
1ST QUARTILE :	0.00430
2ND QUARTILE :	0.00635
3RD QUARTILE :	0.01230
VOL. WGT. MEAN :	0.00890

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORION/CUMULATIVE PRECIP. #31

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	12	11	12	12	12	12
MAXIMUM :	136.0	4.4668	6.7200	264.83	35.062	80.568	16.412
MINIMUM :	1.1	0.2011	0.9692	14.76	4.400	1.592	1.320
RANGE :	134.9	4.2657	5.7508	250.07	30.662	78.976	15.092
ARITH. MEAN :	62.5	1.2348	2.7519	97.75	16.680	13.858	5.607
ARITH. STD. DEV :	38.2	1.2767	1.7374	78.00	11.474	21.756	3.917
GEOM. MEAN :	43.2	0.7804	2.3205	72.79	13.172	7.526	4.636
GEOM. STD. DEV. :	3.4	2.7431	1.8450	2.30	2.089	2.829	1.909
1ST QUARTILE :	30.4	0.3374	1.2034	44.20	8.463	3.960	2.975
2ND QUARTILE :	56.0	0.8419	2.2650	80.24	11.220	6.510	5.435
3RD QUARTILE :	83.6	1.7162	3.2976	114.78	26.963	12.327	6.828
VOL. WGT. MEAN :	########	1.1414	2.5852	90.35	15.418	12.810	5.183

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	55.950	10.444	14.471	17.540	41.403	3.8588	1.4174
MINIMUM :	2.214	0.199	0.000	0.000	0.492	0.0500	0.0123
RANGE :	53.736	10.245	14.471	17.540	40.911	3.8088	1.4051
ARITH. MEAN :	20.643	2.244	2.626	4.060	16.293	0.7311	0.2253
ARITH. STD. DEV :	17.330	2.835	4.395	5.082	13.313	1.0990	0.3920
GEOM. MEAN :	14.386	1.330	0.968	2.279	9.954	0.3421	0.1029
GEOM. STD. DEV. :	2.596	2.848	5.273	3.264	3.539	3.5469	3.3247
1ST QUARTILE :	7.626	0.722	0.084	0.930	5.221	0.1577	0.0572
2ND QUARTILE :	16.804	1.219	0.639	2.598	13.023	0.3595	0.0855
3RD QUARTILE :	27.317	2.550	2.585	4.260	26.389	0.6094	0.1700
VOL. WGT. MEAN :	19.081	2.075	2.427	3.752	15.060	0.6758	0.2083

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORION/CUMULATIVE PRECIP. #31

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES :	12	12	12	12	12	12	12
MAXIMUM :	0.1722	0.672	10.0039	0.8048	0.136	13.697	0.2189
MINIMUM :	0.0080	0.073	0.3439	0.0982	0.008	0.663	0.0256
RANGE :	0.1642	0.599	9.6600	0.7066	0.128	13.034	0.1933
ARITH. MEAN :	0.0435	0.247	2.2596	0.3597	0.060	2.858	0.0770
ARITH. STD. DEV :	0.0448	0.174	2.7472	0.2533	0.040	3.627	0.0644
GEOM. MEAN :	0.0296	0.201	1.3221	0.2807	0.045	1.892	0.0594
GEOM. STD. DEV. :	2.5013	1.953	2.9214	2.1422	2.375	2.317	2.0412
1ST QUARTILE :	0.0144	0.123	0.5912	0.1259	0.023	0.995	0.0364
2ND QUARTILE :	0.0356	0.201	1.2260	0.3169	0.056	1.793	0.0465
3RD QUARTILE :	0.0495	0.320	2.6333	0.4872	0.093	2.391	0.0960
VOL. MGT. MEAN :	0.0402	0.229	2.0886	0.3325	0.055	2.642	0.0711

	CADMIUM MG/M**2
# OF SAMPLES :	12
MAXIMUM :	0.01000
MINIMUM :	0.00080
RANGE :	0.00920
ARITH. MEAN :	0.00459
ARITH. STD. DEV :	0.00292
GEOM. MEAN :	0.00352
GEOM. STD. DEV. :	2.33051
1ST QUARTILE :	0.00172
2ND QUARTILE :	0.00464
3RD QUARTILE :	0.00680
VOL. MGT. MEAN :	0.00424

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/CUMULATIVE PRECIP. 820

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	158.0	6.1573	8.6330	369.15	49.220	43.200	15.800
MINIMUM :	37.0	1.5811	2.9600	65.00	10.730	3.160	2.500
RANGE :	121.0	4.5762	5.6730	304.15	38.490	40.040	13.300
ARITH. MEAN :	73.9	3.7783	5.7057	190.45	33.988	13.266	8.990
ARITH. STD. DEV :	31.8	1.2249	1.7334	89.51	12.511	11.165	3.671
GEOM. MEAN :	68.8	3.5727	5.4458	169.80	31.135	9.981	8.099
GEOM. STD. DEV. :	1.5	1.4401	1.3869	1.68	1.615	2.191	1.686
1ST QUARTILE :	52.0	2.8106	4.6118	118.70	27.330	4.765	6.520
2ND QUARTILE :	65.5	3.7012	5.2978	181.87	31.980	10.190	9.110
3RD QUARTILE :	81.0	4.5627	6.7023	223.90	43.855	14.025	10.605
VOL. WGT. MEAN :	########	3.7783	5.7057	190.45	33.988	13.266	8.990

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	80.250	7.830	6.420	6.420	63.665	2.0520	0.7560
MINIMUM :	7.500	0.172	0.000	0.000	4.000	0.0000	0.0250
RANGE :	72.750	7.657	6.420	6.420	59.665	2.0520	0.7310
ARITH. MEAN :	27.367	2.241	1.657	2.895	21.721	0.5100	0.1688
ARITH. STD. DEV :	18.819	2.184	2.266	2.009	14.792	0.6473	0.2038
GEOM. MEAN :	23.057	1.535	1.067	2.422	17.860	0.3270	0.1100
GEOM. STD. DEV. :	1.812	2.578	2.977	1.896	1.969	3.1142	2.4194
1ST QUARTILE :	16.110	0.995	0.092	1.420	12.707	0.0922	0.0695
2ND QUARTILE :	21.670	1.360	0.481	2.135	19.745	0.1852	0.0775
3RD QUARTILE :	26.760	2.120	1.590	3.687	22.680	0.5210	0.1420
VOL. WGT. MEAN :	27.367	2.241	1.657	2.895	21.721	0.5100	0.1688

: ##### : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/CUMULATIVE PRECIP. #20

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	NICKEL MG/MM#2	ZINC MG/MM#2	IRON MG/MM#2	LEAD MG/MM#2	VANADIUM MG/MM#2	ALUMINUM MG/MM#2	COPPER MG/MM#2
# OF SAMPLES	12	13	13	13	13	13	13
MAXIMUM	0.0535	0.380	8.1756	1.0395	0.107	12.388	0.0866
MINIMUM	0.0140	0.085	0.5147	0.0916	0.014	0.912	0.0368
RANGE	0.0395	0.295	7.6609	0.9479	0.093	11.475	0.0498
ARITH. MEAN	0.0337	0.272	2.0539	0.4103	0.060	2.682	0.0540
ARITH. STD. DEV	0.0120	0.091	2.1221	0.2362	0.026	3.173	0.0134
GEOM. MEAN	0.0315	0.254	1.4899	0.3489	0.054	1.889	0.0526
GEOM. STD. DEV.	1.4883	1.524	2.1576	1.8841	1.704	2.127	1.2597
1ST QUARTILE	0.0260	0.199	0.9175	0.3076	0.042	1.022	0.0442
2ND QUARTILE	0.0327	0.271	1.2164	0.3607	0.055	1.634	0.0507
3RD QUARTILE	0.0437	0.340	1.8588	0.4523	0.072	1.997	0.0573
VOL. WGT. MEAN	0.0327	0.272	2.0539	0.4103	0.060	2.682	0.0540

	CADMIUM MG/MM#2
# OF SAMPLES	13
MAXIMUM	0.00890
MINIMUM	0.00158
RANGE	0.00732
ARITH. MEAN	0.00501
ARITH. STD. DEV	0.00227
GEOM. MEAN	0.00448
GEOM. STD. DEV.	1.68801
1ST QUARTILE	0.00280
2ND QUARTILE	0.00462
3RD QUARTILE	0.00625
VOL. WGT. MEAN	0.00501

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : EAR FALL'S/CUMULATIVE PRECIP. #35

PERIOD OF REPORT : JAN 4, 84 TO JAN 2,85 PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES	13	9	13	13	13	12	13
MAXIMUM	129.7	1.6807	4.9286	185.40	46.692	70.452	23.484
MINIMUM	2.5	0.0494	0.0625	11.66	2.575	0.000	1.825
RANGE	127.2	1.6313	4.8661	173.74	44.117	70.452	21.659
ARITH. MEAN	58.6	0.6003	1.9123	67.40	15.095	16.120	6.018
ARITH. STD. DEV	40.8	0.5155	1.4159	52.81	12.050	19.335	5.662
GEOM. MEAN	40.2	0.3921	1.2769	48.96	11.148	8.777	4.743
GEOM. STD. DEV.	3.0	3.0426	3.1962	2.44	2.358	2.881	1.905
1ST QUARTILE	24.1	0.2190	0.7597	20.75	5.656	4.540	3.218
2ND QUARTILE	46.3	0.3907	1.7265	55.60	11.972	9.033	4.397
3RD QUARTILE	80.0	0.6876	2.3425	79.77	17.552	21.351	5.298
VOL. WGT. MEAN	********	0.6748	1.9123	67.40	15.095	14.929	6.018

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES	11	12	12	12	12	11	12
MAXIMUM	59.328	12.978	8.652	16.686	38.910	4.0788	1.3596
MINIMUM	3.268	0.000	0.000	0.000	0.017	0.3472	0.0333
RANGE	56.060	12.978	8.652	16.686	38.893	3.7316	1.3263
ARITH. MEAN	24.679	2.597	2.338	4.042	15.540	1.0392	0.3211
ARITH. STD. DEV	17.822	3.598	2.894	5.390	10.883	1.0792	0.3831
GEOM. MEAN	18.657	1.440	1.042	2.660	7.901	0.7670	0.1730
GEOM. STD. DEV.	2.335	3.145	5.256	2.205	7.810	2.0898	3.3168
1ST QUARTILE	10.250	0.409	0.692	0.645	7.912	0.4375	0.0648
2ND QUARTILE	17.662	1.222	1.231	2.322	15.515	0.5499	0.1600
3RD QUARTILE	32.345	3.327	3.449	3.594	21.900	1.2935	0.4340
VOL. WGT. MEAN	21.262	2.406	2.166	3.743	14.392	0.8953	0.2973

****** : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : EAR FALL'S/CUMULATIVE PRECIP. 835

PERIOD OF REPORT : JAN 4, 84 TO JAN 2,85

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES	12	12	12	12	12	12	11
MAXIMUM	0.0648	1.177	29.5157	1.1765	0.130	42.667	0.1738
MINIMUM	0.0055	0.092	0.6713	0.0626	0.010	0.885	0.0237
RANGE	0.0593	1.085	28.8443	1.1139	0.120	41.782	0.1500
ARITH. MEAN	0.0325	0.283	5.9135	0.3126	0.056	7.040	0.0745
ARITH. STD. DEV	0.0188	0.294	8.1974	0.3292	0.044	11.718	0.0401
GEOM. MEAN	0.0268	0.217	3.1838	0.2145	0.039	3.235	0.0659
GEOM. STD. DEV.	2.0383	1.960	3.0124	2.3627	2.572	3.310	1.6942
1ST QUARTILE	0.0170	0.145	1.3554	0.1246	0.015	1.380	0.0460
2ND QUARTILE	0.0321	0.204	2.4503	0.1895	0.040	1.884	0.0598
3RD QUARTILE	0.0437	0.251	6.3613	0.3373	0.087	8.495	0.0887
VOL. WGT. MEAN	0.0301	0.262	5.4766	0.2895	0.051	6.520	0.0763

	CADMIUM MG/M**2
# OF SAMPLES	12
MAXIMUM	0.06485
MINIMUM	0.00056
RANGE	0.06429
ARITH. MEAN	0.01020
ARITH. STD. DEV	0.01744
GEOM. MEAN	0.00538
GEOM. STD. DEV.	2.94335
1ST QUARTILE	0.00372
2ND QUARTILE	0.00451
3RD QUARTILE	0.00761
VOL. WGT. MEAN	0.00944

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : EXP. LAKES AREA/CUMULATIVE PRECIP. #34

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES	13	9	12	12	12	10	12
MAXIMUM	145.3	1.2753	2.6735	152.21	22.849	24.600	18.467
MINIMUM	5.2	0.0353	0.5879	14.53	0.000	3.735	1.453
RANGE	140.1	1.2400	2.0856	137.68	22.849	20.865	17.014
ARITH. MEAN	46.1	0.4909	1.5020	68.50	13.776	13.422	6.034
ARITH. STD. DEV	37.3	0.3549	0.5802	39.38	6.914	8.491	5.773
GEOM. MEAN	34.2	0.3588	1.3885	56.35	11.198	10.745	4.447
GEOM. STD. DEV.	2.3	2.7249	1.5438	2.04	1.582	2.093	2.139
1ST QUARTILE	24.1	0.2652	1.1164	36.25	9.798	5.040	2.944
2ND QUARTILE	29.6	0.3895	1.5328	69.27	12.588	11.655	3.705
3RD QUARTILE	53.7	0.5657	1.8381	90.52	19.671	20.844	5.562
VOL. WGT. MEAN	########	0.4401	1.3986	63.78	12.827	11.875	5.619

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES	11	10	12	12	11	11	8
MAXIMUM	53.519	5.400	10.311	15.221	39.936	3.9771	0.4920
MINIMUM	5.271	0.207	0.104	0.000	0.753	0.2179	0.0207
RANGE	48.248	5.192	10.207	15.221	39.182	3.7591	0.4712
ARITH. MEAN	27.321	2.507	2.629	3.315	17.514	1.0938	0.2286
ARITH. STD. DEV	17.406	1.759	3.407	4.077	12.542	1.1319	0.1844
GEOM. MEAN	21.035	1.776	1.215	2.040	10.577	0.7845	0.1454
GEOM. STD. DEV.	2.316	2.765	4.036	2.907	3.819	2.2058	3.1768
1ST QUARTILE	7.783	0.804	0.503	0.758	2.439	0.5150	0.0614
2ND QUARTILE	21.255	2.420	1.594	2.784	15.251	0.6358	0.2065
3RD QUARTILE	43.260	3.525	2.564	3.961	25.955	0.8569	0.3900
VOL. WGT. MEAN	23.842	2.218	2.448	3.087	15.284	0.9545	0.1768

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : EXP. LAKES AREA/CUMULATIVE PRECIP. #34

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES	11	11	10	11	11	10	11
MAXIMUM	0.1004	0.678	6.6872	0.9014	0.145	8.984	0.1669
MINIMUM	0.0041	0.062	0.7773	0.0870	0.006	1.267	0.0117
RANGE	0.0962	0.616	5.9099	0.8144	0.139	7.717	0.1552
ARITH. MEAN	0.0368	0.286	3.2060	0.3808	0.052	4.254	0.0648
ARITH. STD. DEV	0.0289	0.157	2.1189	0.2944	0.044	2.812	0.0416
GEOM. MEAN	0.0265	0.248	2.4318	0.2847	0.035	3.412	0.0536
GEOM. STD. DEV.	2.5306	1.814	2.3395	2.2835	2.728	2.068	1.9810
1ST QUARTILE	0.0120	0.188	0.9538	0.1089	0.016	1.500	0.0361
2ND QUARTILE	0.0318	0.250	3.9381	0.2593	0.027	3.888	0.0516
3RD QUARTILE	0.0450	0.331	4.2343	0.5161	0.077	5.345	0.0780
VOL. WGT. MEAN	0.0321	0.249	2.7783	0.3323	0.045	3.686	0.0565

	CADMIUM MG/M**2
# OF SAMPLES	9
MAXIMUM	0.00982
MINIMUM	0.00140
RANGE	0.00842
ARITH. MEAN	0.00624
ARITH. STD. DEV	0.00240
GEOM. MEAN	0.00561
GEOM. STD. DEV.	1.76479
1ST QUARTILE	0.00490
2ND QUARTILE	0.00623
3RD QUARTILE	0.00723
VOL. WGT. MEAN	0.00493

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GERALDTON/CUMULATIVE PRECIP. #30

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85 PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	11	12	13	13	11	12
MAXIMUM :	183.6	2.4203	6.1690	270.10	36.720	36.720	12.852
MINIMUM :	2.3	0.2058	0.0465	5.06	0.000	0.916	2.047
RANGE :	181.3	2.2145	6.1225	265.04	36.720	35.804	10.805
ARITH. MEAN :	67.2	0.9461	2.4518	83.09	10.594	9.263	5.058
ARITH. STD. DEV :	51.8	0.6788	1.8079	82.45	11.284	10.235	3.481
GEOM. MEAN :	45.2	0.7230	1.5703	52.05	5.774	5.399	4.276
GEOM. STD. DEV. :	3.1	2.2661	3.6630	3.04	2.619	3.189	1.773
1ST QUARTILE :	23.3	0.2692	1.0397	30.94	0.693	1.377	2.797
2ND QUARTILE :	52.8	0.8120	2.1034	62.13	7.715	5.533	4.019
3RD QUARTILE :	82.3	1.2092	3.7082	79.22	12.199	11.849	5.178
VOL. WGT. MEAN :	#########	0.8761	2.5273	83.09	10.594	8.577	5.095

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	11	11	11	11	11	11	12
MAXIMUM :	72.072	5.508	12.852	9.355	38.556	2.2032	0.4380
MINIMUM :	2.640	0.000	0.000	0.000	0.000	0.0855	0.0095
RANGE :	69.432	5.508	12.852	9.355	38.556	2.1177	0.4284
ARITH. MEAN :	21.415	1.479	2.865	2.121	9.465	0.7202	0.1342
ARITH. STD. DEV :	23.516	1.571	4.416	2.726	11.014	0.6332	0.1420
GEOM. MEAN :	13.157	1.072	1.220	1.320	5.097	0.5169	0.0696
GEOM. STD. DEV. :	2.820	2.550	4.699	3.347	3.269	2.4330	3.7976
1ST QUARTILE :	4.944	0.294	0.025	0.071	0.833	0.2923	0.0295
2ND QUARTILE :	14.565	0.834	0.659	1.092	5.591	0.4798	0.0704
3RD QUARTILE :	18.895	1.939	2.945	2.697	11.721	0.7954	0.1830
VOL. WGT. MEAN :	19.829	1.370	2.653	1.964	8.764	0.6669	0.1242

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GERALDTON/CUMULATIVE PRECIP. #30

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	11	12	12	12	12	11	12
MAXIMUM :	0.0918	1.165	19.0603	0.5296	0.184	3.566	0.2383
MINIMUM :	0.0049	0.083	0.3628	0.0614	0.010	0.664	0.0183
RANGE :	0.0869	1.083	18.6975	0.4682	0.174	2.901	0.2200
ARITH. MEAN :	0.0337	0.386	2.4541	0.2094	0.063	1.420	0.0759
ARITH. STD. DEV :	0.0276	0.336	5.2629	0.1540	0.054	0.862	0.0600
GEOM. MEAN :	0.0239	0.280	1.0400	0.1660	0.044	1.241	0.0608
GEOM. STD. DEV. :	2.5049	2.305	2.9301	2.0203	2.496	1.683	1.9654
1ST QUARTILE :	0.0096	0.155	0.5278	0.0951	0.020	0.826	0.0398
2ND QUARTILE :	0.0250	0.264	0.7247	0.1402	0.050	0.930	0.0536
3RD QUARTILE :	0.0425	0.518	1.4792	0.3224	0.085	1.861	0.0996
VOL. WGT. MEAN :	0.0292	0.357	2.2713	0.1938	0.059	1.315	0.0703

	CADMIUM
	MG/M**2
# OF SAMPLES :	12
MAXIMUM :	0.02190
MINIMUM :	0.00092
RANGE :	0.02098
ARITH. MEAN :	0.00698
ARITH. STD. DEV :	0.00710
GEOM. MEAN :	0.00437
GEOM. STD. DEV. :	2.79110
1ST QUARTILE :	0.00196
2ND QUARTILE :	0.00434
3RD QUARTILE :	0.01050
VOL. WGT. MEAN :	0.00646

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GOLDEN LAKE/CUMULATIVE PRECIP. #17

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	12	12	13	13	13	13
MAXIMUM :	112.9	8.9680	9.8223	508.05	51.934	31.050	20.034
MINIMUM :	24.3	1.4741	2.1204	23.08	13.330	1.800	4.400
RANGE :	88.6	7.4939	7.7019	484.96	38.604	29.250	15.634
ARITH. MEAN :	62.0	3.0807	4.2814	162.14	25.566	12.158	8.916
ARITH. STD. DEV :	24.7	1.9294	1.9859	120.13	9.094	8.400	4.837
GEOM. MEAN :	57.5	2.7672	3.9685	130.05	24.366	9.407	7.885
GEOM. STD. DEV. :	1.5	1.5393	1.4731	2.06	1.368	2.241	1.659
1ST QUARTILE :	43.5	2.2752	3.1454	93.81	20.961	5.790	4.820
2ND QUARTILE :	59.4	2.5706	4.0404	122.41	24.063	10.421	7.109
3RD QUARTILE :	68.5	3.0224	4.6963	184.80	26.930	13.755	10.695
VOL. WGT. MEAN :	********	3.0677	4.4484	162.14	25.566	12.158	8.916

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	12	13	12	12	13	12	12
MAXIMUM :	119.567	5.175	8.736	7.500	82.460	7.3040	0.6900
MINIMUM :	4.860	0.152	0.000	0.000	2.430	0.0610	0.0430
RANGE :	114.707	5.022	8.736	7.500	80.030	7.2430	0.6470
ARITH. MEAN :	35.959	2.253	2.128	2.606	21.184	1.2701	0.1809
ARITH. STD. DEV :	34.838	1.630	2.942	2.056	24.410	2.0103	0.1828
GEOM. MEAN :	22.748	1.559	1.736	2.100	12.755	0.5911	0.1302
GEOM. STD. DEV. :	2.826	2.824	2.156	2.084	2.803	3.5431	2.2304
1ST QUARTILE :	8.875	0.748	0.000	1.312	6.837	0.2748	0.0755
2ND QUARTILE :	24.720	2.013	0.965	1.998	10.221	0.5340	0.1260
3RD QUARTILE :	48.912	3.043	3.237	3.491	19.922	1.3107	0.1844
VOL. WGT. MEAN :	35.279	2.253	2.088	2.556	21.184	1.2648	0.1883

***** : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GOLDEN LAKE/CUMULATIVE PRECIP. #17

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	NICKEL MG/MM**2	ZINC MG/MM**2	IRON MG/MM**2	LEAD MG/MM**2	VANADIUM MG/MM**2	ALUMINUM MG/MM**2	COPPER MG/MM**2
# OF SAMPLES	12	12	12	12	12	12	12
MAXIMUM	0.0564	0.699	6.4142	0.7235	0.113	6.472	0.3497
MINIMUM	0.0043	0.118	0.4549	0.1198	0.009	0.732	0.0281
RANGE	0.0521	0.581	5.9593	0.6037	0.104	5.740	0.3216
ARITH. MEAN	0.0256	0.277	1.7801	0.3775	0.047	1.912	0.0820
ARITH. STD. DEV	0.0146	0.165	1.6417	0.1622	0.030	1.574	0.0876
GEOM. MEAN	0.0208	0.239	1.3452	0.3444	0.037	1.564	0.0621
GEOM. STD. DEV.	2.1402	1.740	2.1057	1.5950	2.170	1.832	1.9767
1ST QUARTILE	0.0152	0.140	0.8864	0.2736	0.021	1.027	0.0370
2ND QUARTILE	0.0266	0.247	1.2208	0.3552	0.046	1.312	0.0538
3RD QUARTILE	0.0342	0.364	2.2251	0.4693	0.064	2.177	0.0842
VOL. WGT. MEAN	0.0246	0.288	1.8529	0.3929	0.049	1.991	0.0854

	CADMIUM MG/MM**2
# OF SAMPLES	12
MAXIMUM	0.01431
MINIMUM	0.00061
RANGE	0.01370
ARITH. MEAN	0.00510
ARITH. STD. DEV	0.00424
GEOM. MEAN	0.00353
GEOM. STD. DEV.	2.62120
1ST QUARTILE	0.00155
2ND QUARTILE	0.00402
3RD QUARTILE	0.00685
VOL. WGT. MEAN	0.00530

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GOWGANDA/CUMULATIVE PRECIP. #25

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85 PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	10	10	11	11	10	10
MAXIMUM :	141.0	3.5919	5.8830	472.35	28.728	59.220	14.430
MINIMUM :	12.2	0.6104	0.9980	17.08	1.953	1.395	1.395
RANGE :	128.8	2.9815	4.8850	455.27	26.775	57.825	13.035
ARITH. MEAN :	60.6	1.8653	3.1362	142.23	15.173	13.301	7.517
ARITH. STD. DEV :	36.9	0.9409	1.4771	132.29	8.621	17.613	4.455
GEOM. MEAN :	49.3	1.6234	2.7673	97.68	12.313	7.106	6.018
GEOM. STD. DEV. :	2.1	1.8023	1.7613	2.60	2.168	3.221	2.194
1ST QUARTILE :	31.2	0.8798	1.5720	49.88	7.555	2.690	3.357
2ND QUARTILE :	54.1	1.9929	3.2487	85.40	13.845	5.974	6.833
3RD QUARTILE :	73.8	2.4490	3.9216	166.78	20.836	13.275	9.635
VOL. WGT. MEAN :	########	2.2641	3.2696	148.08	15.796	13.730	9.124

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	8	10	9	9	11	9	10
MAXIMUM :	62.160	11.280	10.545	5.550	104.340	6.6270	1.1280
MINIMUM :	3.348	0.000	0.030	0.139	0.000	0.0558	0.0279
RANGE :	58.812	11.280	10.515	5.410	104.340	6.5712	1.1001
ARITH. MEAN :	21.924	2.217	2.258	2.668	19.151	2.1399	0.2471
ARITH. STD. DEV :	20.981	3.429	3.481	1.761	30.744	2.6843	0.3468
GEOM. MEAN :	14.440	1.121	0.588	1.872	3.751	0.7830	0.1172
GEOM. STD. DEV. :	2.711	3.534	7.094	3.070	14.754	5.4976	3.4927
1ST QUARTILE :	7.609	0.253	0.113	1.175	0.041	0.2144	0.0355
2ND QUARTILE :	11.635	0.970	0.432	2.257	6.357	0.5095	0.0970
3RD QUARTILE :	35.700	1.979	2.229	3.368	20.069	2.2560	0.2734
VOL. WGT. MEAN :	24.499	2.289	2.761	3.262	19.938	2.0302	0.2550

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GOGAMDA/CUMULATIVE PRECIP. #25

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85 PAGE : 2

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES :	18	9	10	10	10	10	9
MAXIMUM :	0.7050	0.603	16.7649	1.7935	0.141	16.036	0.2164
MINIMUM :	0.0139	0.088	0.2971	0.1485	0.012	0.633	0.0441
RANGE :	0.6910	0.515	16.4678	1.6450	0.129	15.404	0.1724
ARITH. MEAN :	0.1078	0.286	3.8637	0.4698	0.054	4.296	0.0862
ARITH. STD. DEV :	0.2115	0.156	5.4760	0.5020	0.045	4.852	0.0530
GEOM. MEAN :	0.0462	0.248	1.8047	0.3382	0.038	2.640	0.0762
GEOM. STD. DEV. :	3.1344	1.792	3.5362	2.1629	2.467	2.789	1.6378
1ST QUARTILE :	0.0204	0.169	0.7101	0.1837	0.013	1.033	0.0517
2ND QUARTILE :	0.0347	0.230	1.5695	0.2626	0.041	2.314	0.0654
3RD QUARTILE :	0.0647	0.351	2.6926	0.4364	0.069	4.256	0.0895
VOL. WGT. MEAN :	0.1113	0.350	3.9883	0.4849	0.056	4.435	0.1054

	CADMIUM MG/M**2
# OF SAMPLES :	9
MAXIMUM :	0.01110
MINIMUM :	0.00139
RANGE :	0.00970
ARITH. MEAN :	0.00475
ARITH. STD. DEV :	0.00320
GEOM. MEAN :	0.00388
GEOM. STD. DEV. :	1.99050
1ST QUARTILE :	0.00205
2ND QUARTILE :	0.00389
3RD QUARTILE :	0.00497
VOL. WGT. MEAN :	0.00581

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HURON PARK/CUMULATIVE PRECIP. #06

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES	13	8	10	11	11	9	10
MAXIMUM	175.8	5.7223	8.1523	659.25	84.384	191.622	32.759
MINIMUM	24.0	0.8837	1.2556	105.60	25.704	17.458	8.294
RANGE	151.8	4.8386	6.8967	553.65	58.680	174.164	24.465
ARITH. MEAN	75.4	2.9818	4.1365	296.36	48.689	57.379	15.836
ARITH. STD. DEV	44.1	1.6550	2.5642	162.84	19.002	56.131	7.048
GEOM. MEAN	65.5	2.5352	3.3693	260.63	45.583	42.106	14.668
GEOM. STD. DEV.	1.7	1.9034	2.0160	1.70	1.458	2.180	1.496
1ST QUARTILE	42.8	1.5370	1.6971	164.70	33.688	21.427	10.380
2ND QUARTILE	66.8	2.9947	3.8286	237.01	41.759	35.820	14.232
3RD QUARTILE	77.6	4.0924	6.0340	376.23	59.719	46.616	17.468
VOL. WGT. MEAN	########	3.0153	4.4485	313.07	51.434	60.612	15.688

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES	9	9	9	10	9	9	10
MAXIMUM	101.964	37.797	5.274	13.591	79.989	1.8980	1.0548
MINIMUM	21.900	2.408	0.205	3.010	7.738	0.0000	0.0730
RANGE	80.064	35.389	5.069	10.581	72.251	1.8980	0.9818
ARITH. MEAN	38.478	9.547	1.916	6.736	36.881	0.7601	0.3005
ARITH. STD. DEV	24.519	11.014	1.668	3.551	22.110	0.6265	0.2839
GEOM. MEAN	34.251	6.549	1.266	5.938	31.035	0.6938	0.2309
GEOM. STD. DEV.	1.569	2.328	2.841	1.703	1.941	2.1890	2.0325
1ST QUARTILE	25.820	3.032	0.615	3.338	25.560	0.3038	0.1661
2ND QUARTILE	30.920	6.030	0.962	5.818	27.888	0.5403	0.1860
3RD QUARTILE	33.505	7.832	2.843	8.975	36.268	0.8364	0.2668
VOL. WGT. MEAN	38.992	10.085	1.942	6.673	37.382	0.7705	0.3167

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HURON PARK/CUMULATIVE PRECIP. 806

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	NICKEL MG/MM**2	ZINC MG/MM**2	IRON MG/MM**2	LEAD MG/MM**2	VANADIUM MG/MM**2	ALUMINUM MG/MM**2	COPPER MG/MM**2
# OF SAMPLES	10	10	10	9	10	10	10
MAXIMUM	0.1260	2.814	14.6424	0.8758	0.176	24.185	0.2150
MINIMUM	0.0060	0.206	1.0574	0.1469	0.017	1.238	0.0200
RANGE	0.1200	2.608	13.5849	0.7289	0.159	22.947	0.1950
ARITH. MEAN	0.0511	0.822	5.0999	0.4879	0.056	6.401	0.0881
ARITH. STD. DEV	0.0440	0.745	5.0675	0.2250	0.047	7.826	0.0633
GEOM. MEAN	0.0343	0.642	3.4658	0.4364	0.044	3.854	0.0699
GEOM. STD. DEV.	2.7776	2.008	2.4585	1.7044	1.999	2.680	2.0808
1ST QUARTILE	0.0156	0.426	1.6044	0.3224	0.024	1.657	0.0393
2ND QUARTILE	0.0356	0.578	2.9970	0.4448	0.041	3.237	0.0626
3RD QUARTILE	0.0622	0.800	4.8090	0.5732	0.067	4.453	0.1066
VOL. WGT. MEAN	0.0538	0.867	5.3749	0.4789	0.059	6.747	0.0929

	CADMIUM MG/MM**2
# OF SAMPLES	10
MAXIMUM	0.01836
MINIMUM	0.00352
RANGE	0.01484
ARITH. MEAN	0.00840
ARITH. STD. DEV	0.00570
GEOM. MEAN	0.00693
GEOM. STD. DEV.	1.89972
1ST QUARTILE	0.00362
2ND QUARTILE	0.00679
3RD QUARTILE	0.00977
VOL. WGT. MEAN	0.00886

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : KILLARNEY/CUMULATIVE PRECIP. #23

PERIOD OF REPORT : FEB 28, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES	7	6	6	7	7	6	7
MAXIMUM	124.0	6.8143	10.1184	359.60	105.820	19.800	17.220
MINIMUM	50.9	1.6096	2.9217	101.80	9.162	12.400	5.599
RANGE	73.1	5.2047	7.1967	257.80	96.658	7.400	11.621
ARITH. MEAN	84.2	4.9404	6.5800	257.33	51.340	15.666	12.976
ARITH. STD. DEV	28.5	1.8397	3.0618	96.34	29.347	2.771	4.476
GEOM. MEAN	80.4	4.5112	5.8796	238.05	42.463	15.464	12.115
GEOM. STD. DEV.	1.4	1.6929	1.7306	1.58	2.130	1.192	1.539
1ST QUARTILE	57.9	3.1785	2.9778	143.71	22.781	12.817	6.700
2ND QUARTILE	72.1	5.0343	6.9995	249.33	45.685	15.505	14.245
3RD QUARTILE	102.8	5.8429	8.2839	327.82	58.315	16.900	15.862
VOL. WGT. MEAN	#########	4.8424	7.1267	257.33	51.340	15.355	12.976

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES	6	6	6	7	6	6	7
MAXIMUM	52.080	3.900	2.600	7.995	39.680	0.7380	0.3700
MINIMUM	7.635	0.923	0.000	1.950	6.617	0.1237	0.0509
RANGE	44.445	2.977	2.600	6.045	33.063	0.6143	0.3191
ARITH. MEAN	33.078	2.485	1.383	4.399	26.532	0.4927	0.2047
ARITH. STD. DEV	16.331	1.205	0.886	2.281	12.301	0.2097	0.1057
GEOM. MEAN	28.307	2.190	1.450	3.883	23.073	0.4334	0.1758
GEOM. STD. DEV.	2.005	1.797	1.434	1.734	1.931	1.8986	1.9242
1ST QUARTILE	18.559	1.081	0.461	2.120	14.686	0.2894	0.0869
2ND QUARTILE	29.618	2.641	1.497	3.645	25.406	0.5098	0.1800
3RD QUARTILE	39.675	3.185	1.768	5.634	33.275	0.5908	0.2644
VOL. WGT. MEAN	32.422	2.435	1.356	4.399	26.005	0.4830	0.2047

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : KILLARNEY/CUMULATIVE PRECIP. 823

PERIOD OF REPORT : FEB 28, 84 TO JAN 2,85

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	7	6	6	6	7	6	6
MAXIMUM :	0.1722	1.122	6.6866	0.7648	0.124	4.214	0.2338
MINIMUM :	0.0254	0.190	0.8185	0.1765	0.016	1.205	0.0775
RANGE :	0.1467	0.932	5.8682	0.5883	0.107	3.009	0.1563
ARITH. MEAN :	0.0674	0.586	3.2963	0.5038	0.061	2.805	0.1256
ARITH. STD. DEV :	0.0541	0.317	2.1748	0.1929	0.036	1.188	0.0599
GEOM. MEAN :	0.0533	0.511	2.6541	0.4620	0.051	2.560	0.1157
GEOM. STD. DEV. :	2.0248	1.828	2.1477	1.6546	2.003	1.637	1.5357
1ST QUARTILE :	0.0290	0.280	1.3144	0.3218	0.021	1.445	0.0787
2ND QUARTILE :	0.0360	0.578	2.9336	0.5157	0.058	3.008	0.1059
3RD QUARTILE :	0.0846	0.650	4.2461	0.5684	0.072	3.569	0.1355
VOL. MGT. MEAN :	0.0674	0.636	3.5779	0.5468	0.061	3.044	0.1363

	CADMIUM
	MG/M**2
# OF SAMPLES :	7
MAXIMUM :	0.01240
MINIMUM :	0.00325
RANGE :	0.00915
ARITH. MEAN :	0.00769
ARITH. STD. DEV :	0.00340
GEOM. MEAN :	0.00694
GEOM. STD. DEV. :	1.67290
1ST QUARTILE :	0.00347
2ND QUARTILE :	0.00721
3RD QUARTILE :	0.01004
VOL. MGT. MEAN :	0.00769

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/CUMULATIVE PRECIP. #33

PERIOD OF REPORT : JAN 3, 84 TO NOV 6,84

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	11	6	10	10	10	7	10
MAXIMUM :	118.4	1.4566	3.8835	165.76	33.152	28.416	10.013
MINIMUM :	0.5	0.4524	0.6807	10.11	4.998	1.190	2.300
RANGE :	117.9	1.0042	3.2028	155.64	28.154	27.226	7.713
ARITH. MEAN :	44.4	0.8191	1.7419	65.85	13.604	10.455	4.320
ARITH. STD. DEV :	35.0	0.3450	0.9993	47.15	8.589	9.043	2.523
GEOM. MEAN :	25.4	0.7666	1.5158	50.66	11.601	7.327	3.827
GEOM. STD. DEV. :	4.6	1.4783	1.7407	2.27	1.796	2.711	1.633
1ST QUARTILE :	10.1	0.5271	0.9109	26.67	6.740	3.035	2.410
2ND QUARTILE :	40.0	0.7789	1.4466	55.30	10.652	6.900	3.476
3RD QUARTILE :	56.2	0.8320	2.0381	83.88	16.549	12.450	4.249
VOL. WGT. MEAN :	*********	0.7430	1.5852	59.93	12.380	8.846	3.931

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	8	9	9	8	9	8	9
MAXIMUM :	47.360	6.851	9.350	6.851	36.704	1.4756	0.8432
MINIMUM :	7.320	0.238	0.059	0.000	0.095	0.1220	0.0357
RANGE :	40.040	6.613	9.290	6.851	36.609	1.3536	0.8075
ARITH. MEAN :	24.640	2.432	2.918	2.718	14.187	0.6655	0.3124
ARITH. STD. DEV :	13.909	2.230	2.990	2.686	11.260	0.4893	0.3107
GEOM. MEAN :	20.742	1.559	1.432	1.916	7.563	0.4968	0.1916
GEOM. STD. DEV. :	1.949	2.962	4.763	2.654	5.832	2.3925	3.0445
1ST QUARTILE :	12.250	0.704	0.474	0.682	5.570	0.2564	0.0704
2ND QUARTILE :	24.516	1.520	1.975	2.146	10.695	0.5489	0.2050
3RD QUARTILE :	34.454	2.808	3.473	4.620	16.795	1.0580	0.2767
VOL. WGT. MEAN :	18.712	2.026	2.431	2.237	11.821	0.5054	0.2603

***** : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/CUMULATIVE PRECIP. #33

PERIOD OF REPORT : JAN 3, 84 TO NOV 6,84 PAGE : 2

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES	9	8	8	9	9	6	9
MAXIMUM	0.0592	0.451	21.6672	1.0678	0.118	23.052	0.4589
MINIMUM	0.0069	0.069	0.3873	0.0463	0.009	0.576	0.0129
RANGE	0.0523	0.382	21.2798	1.0216	0.109	22.476	0.4379
ARITH. MEAN	0.0242	0.214	4.6158	0.2708	0.044	5.158	0.0964
ARITH. STD. DEV	0.0168	0.116	7.0546	0.3178	0.037	8.793	0.1358
GEOM. MEAN	0.0199	0.187	2.2116	0.1733	0.031	2.236	0.0567
GEOM. STD. DEV.	1.9449	1.760	3.5223	2.6022	2.489	3.514	2.7195
1ST QUARTILE	0.0120	0.138	1.0457	0.0890	0.012	0.831	0.0285
2ND QUARTILE	0.0175	0.206	2.0664	0.1166	0.029	1.850	0.0488
3RD QUARTILE	0.0252	0.252	4.3238	0.2775	0.050	2.232	0.0738
VOL. WGT. MEAN	0.0202	0.176	3.8400	0.2256	0.037	3.983	0.0803

	CADMIUM MG/M**2
# OF SAMPLES	9
MAXIMUM	0.01184
MINIMUM	0.00059
RANGE	0.01124
ARITH. MEAN	0.00595
ARITH. STD. DEV	0.00396
GEOM. MEAN	0.00440
GEOM. STD. DEV.	2.59070
1ST QUARTILE	0.00247
2ND QUARTILE	0.00451
3RD QUARTILE	0.00846
VOL. WGT. MEAN	0.00495

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MATTAWA/CUMULATIVE PRECIP. #22

PERIOD OF REPORT : JAN 4, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES	12	12	11	12	12	12	11
MAXIMUM	145.0	6.6278	10.3820	356.58	41.496	20.923	13.838
MINIMUM	17.7	1.1251	2.2137	44.25	7.035	1.455	1.407
RANGE	127.3	5.5027	8.1683	312.33	34.461	19.468	12.431
ARITH. MEAN	73.7	3.5363	5.4171	182.72	27.886	11.441	8.564
ARITH. STD. DEV	35.6	2.0114	2.6263	107.25	10.376	6.750	3.013
GEOM. MEAN	64.8	2.9799	4.8245	148.80	25.468	8.923	7.691
GEOM. STD. DEV.	1.8	1.8871	1.6778	2.06	1.643	2.325	1.809
1ST QUARTILE	44.8	1.7939	2.7069	89.05	20.995	5.304	7.425
2ND QUARTILE	75.5	3.1624	4.6600	173.50	27.803	12.070	8.331
3RD QUARTILE	96.8	5.3382	7.3205	272.85	36.425	16.747	9.954
VOL. WGT. MEAN	########	3.5363	5.5771	182.72	27.886	11.441	8.011

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES	12	12	12	11	12	12	11
MAXIMUM	76.850	5.094	18.112	9.971	49.806	2.4650	0.6405
MINIMUM	6.097	0.469	0.237	0.000	1.407	0.0760	0.0469
RANGE	70.753	4.625	17.874	9.971	48.401	2.3890	0.5936
ARITH. MEAN	30.183	1.975	3.744	3.547	18.747	0.7974	0.2477
ARITH. STD. DEV	23.454	1.527	5.163	3.024	13.979	0.8381	0.2022
GEOM. MEAN	22.515	1.474	1.790	2.823	12.745	0.4876	0.1831
GEOM. STD. DEV.	2.293	2.290	3.690	1.940	2.918	2.9030	2.2770
1ST QUARTILE	12.229	0.675	1.033	1.419	5.810	0.2615	0.0960
2ND QUARTILE	22.895	1.710	1.357	2.785	20.710	0.4434	0.1510
3RD QUARTILE	42.146	2.575	4.282	3.462	23.037	1.0719	0.3714
VOL. WGT. MEAN	30.183	1.975	3.744	3.318	18.747	0.7974	0.2317

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HATTAMA/CUMULATIVE PRECIP. #22

PERIOD OF REPORT : JAN 4, 84 TO JAN 2,85 PAGE : 2

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES	11	11	10	11	11	10	11
MAXIMUM	0.2730	0.684	6.4776	1.2724	0.145	6.068	0.1414
MINIMUM	0.0194	0.079	1.3980	0.1255	0.019	1.341	0.0143
RANGE	0.2536	0.605	5.0796	1.1469	0.126	4.727	0.1272
ARITH. MEAN	0.0591	0.338	2.3610	0.4427	0.072	2.338	0.0695
ARITH. STD. DEV	0.0729	0.151	1.6555	0.3082	0.036	1.425	0.0343
GEOM. MEAN	0.0414	0.303	2.0386	0.3726	0.063	2.093	0.0607
GEOM. STD. DEV.	2.1482	1.706	1.6700	1.8248	1.756	1.566	1.8269
1ST QUARTILE	0.0208	0.251	1.4750	0.2370	0.042	1.597	0.0433
2ND QUARTILE	0.0377	0.305	1.6868	0.3207	0.065	1.817	0.0632
3RD QUARTILE	0.0520	0.370	1.8896	0.4934	0.088	2.043	0.0827
VOL. WGT. MEAN	0.0553	0.316	2.1065	0.4141	0.067	2.086	0.0650

	CADMIUN MG/M**2
# OF SAMPLES	11
MAXIMUM	0.01132
MINIMUM	0.00097
RANGE	0.01035
ARITH. MEAN	0.00541
ARITH. STD. DEV	0.00339
GEOM. MEAN	0.00432
GEOM. STD. DEV.	2.13603
1ST QUARTILE	0.00224
2ND QUARTILE	0.00486
3RD QUARTILE	0.00755
VOL. WGT. MEAN	0.00506

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MCKELLAR/CUMULATIVE PRECIP. #21

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES	13	12	13	13	13	13	13
MAXIMUM	165.8	9.9422	13.0350	544.50	77.326	54.609	37.000
MINIMUM	22.1	2.0023	0.8338	5.68	1.516	1.137	5.816
RANGE	142.9	7.9399	12.2012	538.81	75.810	53.472	31.184
ARITH. MEAN	86.8	4.5069	6.3280	233.87	37.785	17.336	15.936
ARITH. STD. DEV	42.5	2.6002	3.4358	165.74	20.767	15.466	8.846
GEOM. MEAN	76.1	3.9408	5.2705	155.63	28.935	11.412	13.820
GEOM. STD. DEV.	1.8	1.6936	2.0407	3.36	2.706	2.861	1.756
1ST QUARTILE	52.6	2.7620	3.7487	94.78	24.468	6.171	7.624
2ND QUARTILE	74.3	3.6463	5.4680	201.12	33.050	10.740	13.260
3RD QUARTILE	111.9	5.8894	7.7360	299.04	47.943	22.625	20.629
VOL. WGT. MEAN	########	3.9915	6.1331	217.17	35.086	16.097	14.798

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES	13	13	13	13	13	13	13
MAXIMUM	172.082	12.999	27.855	36.500	108.944	11.8848	0.7515
MINIMUM	5.306	0.095	0.000	1.650	0.303	0.0629	0.0189
RANGE	166.776	12.904	27.855	34.850	108.641	11.8219	0.7326
ARITH. MEAN	51.372	3.314	5.056	8.872	29.430	1.7128	0.2423
ARITH. STD. DEV	53.050	3.845	8.778	9.525	28.382	3.2097	0.2411
GEOM. MEAN	32.121	1.682	1.786	5.862	15.917	0.5476	0.1542
GEOM. STD. DEV.	2.851	3.865	4.207	2.528	4.630	4.9772	2.8692
1ST QUARTILE	14.833	0.719	0.347	2.457	11.954	0.1284	0.0960
2ND QUARTILE	32.301	1.493	0.719	5.291	21.025	0.6240	0.1465
3RD QUARTILE	50.269	4.125	2.750	9.870	35.360	1.2052	0.2443
VOL. WGT. MEAN	47.703	3.077	4.695	8.238	27.328	1.5904	0.2250

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MCKELLAR/CUMULATIVE PRECIP. #21

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	0.3000	2.341	14.5741	1.4008	0.165	17.615	0.4406
MINIMUM :	0.0189	0.111	0.6720	0.2374	0.013	1.042	0.0557
RANGE :	0.2811	2.230	13.9021	1.1634	0.152	16.573	0.3849
ARITH. MEAN :	0.0612	0.613	4.2240	0.6399	0.075	3.909	0.1202
ARITH. STD. DEV :	0.0743	0.560	3.9865	0.3312	0.047	4.443	0.1070
GEOM. MEAN :	0.0435	0.463	2.9401	0.5637	0.059	2.715	0.0962
GEOM. STD. DEV. :	2.1026	2.193	2.4375	1.7075	2.159	2.256	1.8606
1ST QUARTILE :	0.0258	0.339	1.5977	0.3705	0.032	1.486	0.0580
2ND QUARTILE :	0.0382	0.516	2.8988	0.6064	0.064	2.059	0.0796
3RD QUARTILE :	0.0545	0.576	4.3900	0.7467	0.097	4.244	0.1039
VOL. WGT. MEAN :	0.0568	0.569	3.9223	0.5942	0.069	3.630	0.1116

	CADMIUM MG/M**2
# OF SAMPLES :	13
MAXIMUM :	0.11000
MINIMUM :	0.00189
RANGE :	0.10810
ARITH. MEAN :	0.01647
ARITH. STD. DEV :	0.02859
GEOM. MEAN :	0.00856
GEOM. STD. DEV. :	2.86044
1ST QUARTILE :	0.00370
2ND QUARTILE :	0.00812
3RD QUARTILE :	0.01279
VOL. WGT. MEAN :	0.01529

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MERLIN/CUMULATIVE PRECIP. #02

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES	13	12	11	13	13	12	12
MAXIMUM	120.0	6.5953	8.8060	654.00	79.200	135.600	36.206
MINIMUM	16.0	0.8397	1.2600	48.80	18.400	9.360	7.650
RANGE	104.0	5.7556	7.5460	605.20	60.800	126.240	28.556
ARITH. MEAN	62.0	3.5895	4.8305	290.59	44.894	47.483	19.182
ARITH. STD. DEV	25.4	1.7762	2.3956	145.91	18.771	42.636	8.672
GEOM. MEAN	56.7	3.0938	4.1418	252.42	41.383	33.524	17.330
GEOM. STD. DEV.	1.6	1.8615	1.8952	1.85	1.531	2.368	1.623
1ST QUARTILE	47.5	2.2407	2.3194	211.64	30.756	19.160	12.920
2ND QUARTILE	55.0	3.6237	4.5465	261.35	41.330	28.440	17.960
3RD QUARTILE	68.0	5.0654	6.5072	327.00	48.255	73.450	26.220
VOL. WGT. MEAN	########	3.5325	5.1975	290.59	44.894	46.728	18.065

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES	13	12	13	12	13	13	12
MAXIMUM	108.000	28.800	9.250	30.733	96.600	4.6800	0.7200
MINIMUM	8.000	1.560	0.135	0.225	3.392	0.1300	0.0225
RANGE	100.000	27.240	9.115	30.508	93.208	4.5500	0.6975
ARITH. MEAN	43.328	8.787	3.198	8.726	31.271	1.1252	0.2730
ARITH. STD. DEV	27.882	9.360	2.838	8.222	24.422	1.4061	0.2320
GEOM. MEAN	34.786	5.365	2.060	5.158	23.534	0.6581	0.1831
GEOM. STD. DEV.	2.097	2.786	3.069	3.681	2.329	2.7852	2.8028
1ST QUARTILE	24.770	2.520	1.060	2.785	18.426	0.3200	0.1060
2ND QUARTILE	33.270	4.325	2.235	8.075	21.190	0.5070	0.2005
3RD QUARTILE	53.835	14.137	3.262	10.765	38.550	0.9924	0.3960
VOL. WGT. MEAN	43.328	8.647	3.198	8.218	31.271	1.1252	0.2687

INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HERLIN/CUMULATIVE PRECIP. S02

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	13	13	12	13	13	12	13
MAXIMUM :	0.0842	2.302	15.3540	1.1502	0.120	13.060	0.3280
MINIMUM :	0.0080	0.349	1.0714	0.2437	0.010	1.099	0.0276
RANGE :	0.0762	1.953	14.2826	0.9065	0.110	12.761	0.3004
ARITH. MEAN :	0.0317	0.767	4.7197	0.6297	0.048	4.692	0.0997
ARITH. STD. DEV :	0.0202	0.518	4.5936	0.2817	0.030	4.258	0.0921
GEOM. MEAN :	0.0268	0.662	3.2824	0.5649	0.039	3.359	0.0750
GEOM. STD. DEV. :	1.8478	1.687	2.3419	1.6623	2.063	2.294	2.0764
1ST QUARTILE :	0.0225	0.416	1.7942	0.3187	0.017	1.750	0.0470
2ND QUARTILE :	0.0267	0.594	2.4617	0.6584	0.047	2.967	0.0516
3RD QUARTILE :	0.0305	0.829	6.7553	0.7482	0.058	6.597	0.1009
VOL. WGT. MEAN :	0.0317	0.767	4.6447	0.6297	0.048	4.618	0.0997

	CADMIUM
	MG/M**2
# OF SAMPLES :	13
MAXIMUM :	0.05726
MINIMUM :	0.00300
RANGE :	0.05426
ARITH. MEAN :	0.01023
ARITH. STD. DEV :	0.01444
GEOM. MEAN :	0.00684
GEOM. STD. DEV. :	2.15688
1ST QUARTILE :	0.00450
2ND QUARTILE :	0.00550
3RD QUARTILE :	0.00680
VOL. WGT. MEAN :	0.01023

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MILTON/CUMULATIVE PRECIP. #10

PERIOD OF REPORT : JAN 3, 84 TO MAR 27,84 PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES	3	2	3	3	3	2	1
MAXIMUM	69.6	2.6271	4.6988	382.80	49.752	50.443	45.606
MINIMUM	31.7	1.0024	1.3363	49.13	23.775	16.801	45.606
RANGE	37.9	1.6247	3.3625	333.66	25.977	33.642	0.000
ARITH. MEAN	56.8	1.8148	2.7007	213.08	40.285	33.622	********
ARITH. STD. DEV	21.7	1.1488	1.7686	166.91	14.349	23.788	********
GEOM. MEAN	53.4	1.6228	2.3500	157.39	38.255	29.112	********
GEOM. STD. DEV.	1.6	1.9764	1.8935	2.87	1.511	2.176	********
1ST QUARTILE	********	********	********	********	********	********	********
2ND QUARTILE	********	********	********	********	********	********	********
3RD QUARTILE	********	********	********	********	********	********	********
VOL. WGT. MEAN	0.0	3.6296	8.1020	639.23	120.855	67.244	********

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES	3	2	3	1	3	3	2
MAXIMUM	29.232	13.475	2.088	31.786	21.559	1.3224	0.4146
MINIMUM	9.510	4.438	0.079	31.786	8.052	0.5072	0.1902
RANGE	19.722	9.037	2.009	0.000	13.507	0.8152	0.2244
ARITH. MEAN	20.976	8.956	0.953	********	12.562	0.8863	0.3024
ARITH. STD. DEV	10.245	6.390	1.030	********	7.792	0.4106	0.1587
GEOM. MEAN	18.874	7.733	0.485	********	11.191	0.8224	0.2808
GEOM. STD. DEV.	1.824	2.193	5.281	********	1.764	1.6148	1.7350
1ST QUARTILE	********	********	********	********	********	********	********
2ND QUARTILE	********	********	********	********	********	********	********
3RD QUARTILE	********	********	********	********	********	********	********
VOL. WGT. MEAN	62.927	17.912	2.858	********	37.685	2.6588	0.6048

****** : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HILTON/CUMULATIVE PRECIP. 810

PERIOD OF REPORT : JAN 7; 84 TO MAR 27,84 PAGE : 2

	NICKEL MG/MM**2	ZINC MG/MM**2	IRON MG/MM**2	LEAD MG/MM**2	VANADIUM MG/MM**2	ALUMINUM MG/MM**2	COPPER MG/MM**2
# OF SAMPLES :	3	3	3	3	3	3	3
MAXIMUM :	0.1382	1.287	8.4077	0.9910	0.138	6.354	0.3798
MINIMUM :	0.0158	0.482	2.3087	0.5528	0.032	1.618	0.0565
RANGE :	0.1223	0.804	6.0990	0.4401	0.106	4.736	0.3233
ARITH. MEAN :	0.0629	0.976	5.3379	0.7438	0.080	3.826	0.1655
ARITH. STD. DEV :	0.0659	0.432	3.0497	0.2258	0.054	2.384	0.1855
GEOM. MEAN :	0.0424	0.896	4.6849	0.7220	0.067	3.303	0.1090
GEOM. STD. DEV. :	2.9928	1.713	1.9250	1.3448	2.089	1.985	2.9498
1ST QUARTILE :	#########	#########	#########	#########	#########	#########	#########
2ND QUARTILE :	#########	#########	#########	#########	#########	#########	#########
3RD QUARTILE :	#########	#########	#########	#########	#########	#########	#########
VOL. WGT. MEAN :	0.1888	2.927	16.0136	2.2313	0.239	11.478	0.4966

	CADMIUM MG/MM**2
# OF SAMPLES :	3
MAXIMUM :	0.00696
MINIMUM :	0.00158
RANGE :	0.00537
ARITH. MEAN :	0.00515
ARITH. STD. DEV :	0.00309
GEOM. MEAN :	0.00424
GEOM. STD. DEV. :	2.34473
1ST QUARTILE :	##########
2ND QUARTILE :	##########
3RD QUARTILE :	##########
VOL. WGT. MEAN :	0.01546

: INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MOONBEAM/CUMULATIVE PRECIP. #27

PERIOD OF REPORT : FEB 28, 84 TO DEC 4,84

	PRECIP. MM	FREE H+ LAB MG/MM**2	TOTAL H+ TO PH8.3 MG/MM**2	SULPHATE MG/MM**2	NITRATE AS N MG/MM**2	CALCIUM MG/MM**2	CHLORIDE MG/MM**2
# OF SAMPLES	10	8	9	9	9	7	9
MAXIMUM	150.0	6.8563	9.8400	405.00	37.346	31.262	13.500
MINIMUM	1.0	0.7560	2.0274	61.28	6.300	5.362	0.700
RANGE	149.0	6.1003	7.8126	343.72	31.046	25.900	12.800
ARITH. MEAN	67.0	1.9756	3.5500	142.55	16.974	14.261	6.890
ARITH. STD. DEV	41.2	2.0052	2.4551	102.60	11.478	9.439	3.916
GEOM. MEAN	44.1	1.5214	3.1037	122.72	14.328	11.804	5.466
GEOM. STD. DEV.	4.1	1.9608	1.6351	1.70	1.807	1.954	2.386
1ST QUARTILE	35.8	1.0493	2.2209	88.70	9.779	5.481	4.741
2ND QUARTILE	65.0	1.2580	2.5608	110.68	12.064	10.088	6.369
3RD QUARTILE	80.7	1.7889	3.2754	128.38	14.719	18.715	6.747
VOL. WGT. MEAN	########	1.7178	3.1998	128.48	15.300	12.020	6.210

	KJELDAHL AS N MG/MM**2	MAGNESIUM MG/MM**2	POTASSIUM MG/MM**2	SODIUM MG/MM**2	AMMONIUM AS N MG/MM**2	PHOSPHOR MG/MM**2	MANGANESE MG/MM**2
# OF SAMPLES	8	7	8	8	8	8	8
MAXIMUM	60.000	5.075	13.568	6.750	37.500	3.3072	0.5484
MINIMUM	7.130	0.350	0.000	0.350	3.830	0.0700	0.0350
RANGE	52.870	4.725	13.568	6.400	33.670	3.2372	0.5334
ARITH. MEAN	25.205	2.260	4.187	2.939	15.128	0.9886	0.2429
ARITH. STD. DEV	19.114	1.787	4.874	1.947	11.437	1.1354	0.2036
GEOM. MEAN	19.389	1.525	2.073	2.278	11.431	0.4838	0.1562
GEOM. STD. DEV.	2.282	2.874	4.063	2.405	2.314	3.9938	3.0165
1ST QUARTILE	9.595	0.434	0.394	1.886	5.103	0.1759	0.0656
2ND QUARTILE	19.336	1.655	2.715	2.457	14.246	0.4623	0.2097
3RD QUARTILE	38.324	3.282	6.854	3.863	20.499	1.6277	0.3946
VOL. WGT. MEAN	22.182	1.905	3.685	2.587	13.314	0.8701	0.2138

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HOOMBEAM/CUMULATIVE PRECIP. #27

PERIOD OF REPORT : FEB 28, 84 TO DEC 4,84

	NICKEL MG/MM**2	ZINC MG/MM**2	IRON MG/MM**2	LEAD MG/MM**2	VANADIUM MG/MM**2	ALUMINUM MG/MM**2	COPPER MG/MM**2
# OF SAMPLES	8	8	8	8	8	8	8
MAXIMUM	0.0750	0.466	10.5763	0.9469	0.158	16.317	0.1894
MINIMUM	0.0105	0.111	0.3904	0.1812	0.011	0.593	0.0400
RANGE	0.0645	0.355	10.1859	0.7658	0.139	15.724	0.1495
ARITH. MEAN	0.0361	0.231	3.6835	0.4027	0.071	4.239	0.0815
ARITH. STD. DEV	0.0212	0.121	3.5461	0.2340	0.044	5.203	0.0487
GEOM. MEAN	0.0304	0.207	2.3267	0.3603	0.056	2.399	0.0721
GEOM. STD. DEV.	1.9304	1.648	2.9793	1.6111	2.313	3.139	1.6549
1ST QUARTILE	0.0179	0.133	1.1501	0.2762	0.036	0.848	0.0512
2ND QUARTILE	0.0366	0.211	2.4531	0.3617	0.073	2.780	0.0678
3RD QUARTILE	0.0471	0.291	5.6476	0.4088	0.094	4.872	0.0923
VOL. WGT. MEAN	0.0318	0.203	3.2418	0.3544	0.062	3.730	0.0717

	CADMIUM MG/MM**2
# OF SAMPLES	8
MAXIMUM	0.01500
MINIMUM	0.00203
RANGE	0.01297
ARITH. MEAN	0.00678
ARITH. STD. DEV	0.00398
GEOM. MEAN	0.00580
GEOM. STD. DEV.	1.85378
1ST QUARTILE	0.00414
2ND QUARTILE	0.00639
3RD QUARTILE	0.00807
VOL. WGT. MEAN	0.00597

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : OTTER ISLAND/CUMULATIVE PRECIP. #38

PERIOD OF REPORT : APR 24, 84 TO NOV 6,84

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	7	7	7	7	7	7	7
MAXIMUM :	107.0	3.8779	5.8752	286.35	44.160	57.270	25.680
MINIMUM :	35.0	0.1511	1.7360	84.00	8.750	8.700	2.800
RANGE :	72.0	3.7268	4.1392	202.35	35.410	48.570	22.880
ARITH. MEAN :	80.7	1.7780	4.0997	173.33	24.510	20.006	9.663
ARITH. STD. DEV :	23.9	1.3784	1.4820	79.69	13.883	16.891	8.271
GEOM. MEAN :	76.7	1.2274	3.8280	157.88	21.031	16.341	7.235
GEOM. STD. DEV. :	1.5	2.9600	1.5279	1.60	1.848	1.860	2.242
1ST QUARTILE :	52.0	0.4673	2.4120	92.02	10.775	9.875	3.400
2ND QUARTILE :	82.5	1.3304	3.6714	144.92	17.060	12.750	4.725
3RD QUARTILE :	94.5	2.4861	5.3281	226.52	35.870	18.760	12.855
VOL. WGT. MEAN :	########	1.5251	3.2209	148.68	19.841	17.161	8.289

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	7	7	7	6	7	6	7
MAXIMUM :	85.600	10.350	13.910	7.590	52.095	1.9320	1.1040
MINIMUM :	15.400	1.600	1.575	0.435	11.025	0.1700	0.1740
RANGE :	70.200	8.750	12.335	7.155	41.070	1.7620	0.9300
ARITH. MEAN :	43.500	3.674	6.986	2.478	25.507	0.8712	0.4836
ARITH. STD. DEV :	26.805	3.068	4.340	2.858	15.109	0.7985	0.3318
GEOM. MEAN :	36.640	2.984	5.545	1.390	22.271	0.5875	0.3974
GEOM. STD. DEV. :	1.898	1.894	2.244	3.256	1.732	2.7051	1.9680
1ST QUARTILE :	19.300	1.675	1.875	0.480	13.270	0.2250	0.1940
2ND QUARTILE :	27.105	2.362	6.568	1.119	18.082	0.5045	0.3265
3RD QUARTILE :	63.045	3.645	9.052	2.840	31.875	1.2225	0.6200
VOL. WGT. MEAN :	36.150	3.151	5.992	2.248	21.880	0.7600	0.4148

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : OTTER ISLAND/CUMULATIVE PRECIP. #36

PERIOD OF REPORT : APR 24, 84 TO NOV 6,84

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES :	7	6	7	7	7	7	7
MAXIMUM :	0.0535	0.862	6.8551	0.9544	0.107	9.660	0.2521
MINIMUM :	0.0175	0.173	1.2852	0.0891	0.035	1.625	0.0339
RANGE :	0.0360	0.690	5.5699	0.8654	0.072	8.035	0.2182
ARITH. MEAN :	0.0404	0.364	3.3095	0.3824	0.081	4.576	0.1148
ARITH. STD. DEV :	0.0120	0.263	1.7765	0.3066	0.024	2.695	0.0741
GEOM. MEAN :	0.0383	0.306	2.9482	0.2898	0.077	3.977	0.0957
GEOM. STD. DEV. :	1.4561	1.842	1.6842	2.2716	1.456	1.774	1.9453
1ST QUARTILE :	0.0260	0.188	1.6794	0.1124	0.052	2.236	0.0475
2ND QUARTILE :	0.0412	0.251	2.9247	0.2620	0.082	3.624	0.0805
3RD QUARTILE :	0.0472	0.371	3.5517	0.4866	0.094	5.326	0.1477
VOL. MGT. MEAN :	0.0346	0.331	2.8389	0.3280	0.069	3.925	0.0985

	CADMIUM MG/M**2
# OF SAMPLES :	7
MAXIMUM :	0.11770
MINIMUM :	0.00350
RANGE :	0.11420
ARITH. MEAN :	0.02533
ARITH. STD. DEV :	0.04107
GEOM. MEAN :	0.01264
GEOM. STD. DEV. :	3.04129
1ST QUARTILE :	0.00575
2ND QUARTILE :	0.00860
3RD QUARTILE :	0.01545
VOL. MGT. MEAN :	0.02173

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PALMERSTON/CUMULATIVE PRECIP. #08

PERIOD OF REPORT : JAN 4, 84 TO DEC 31,84 PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	10	10	12	12	11	12
MAXIMUM :	150.0	7.1022	9.7240	468.00	57.600	112.530	22.148
MINIMUM :	18.8	1.0276	0.5886	124.30	19.552	10.790	4.512
RANGE :	131.2	6.0746	9.1354	343.70	38.048	101.740	17.636
ARITH. MEAN :	68.4	3.6880	4.8610	260.87	40.200	33.724	12.711
ARITH. STD. DEV :	35.4	2.1306	3.3111	126.70	13.000	29.391	5.048
GEOM. MEAN :	59.8	3.0879	3.6274	236.00	38.104	25.789	11.678
GEOM. STD. DEV. :	1.8	1.9396	2.4631	1.58	1.423	2.100	1.578
1ST QUARTILE :	42.6	1.7457	1.8060	169.46	30.045	11.960	10.630
2ND QUARTILE :	63.5	3.0918	4.0430	196.80	39.346	23.988	12.385
3RD QUARTILE :	79.0	5.0892	7.4622	369.96	51.788	39.708	14.250
VOL. WGT. MEAN :	********	3.4339	5.0133	256.68	39.554	31.434	12.507

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	11	11	12	12	11	11	9
MAXIMUM :	81.000	35.574	4.500	14.690	68.400	4.0656	0.7500
MINIMUM :	30.039	2.490	0.000	0.360	18.800	0.0000	0.0800
RANGE :	50.961	33.084	4.500	14.330	49.600	4.0656	0.6700
ARITH. MEAN :	48.496	9.171	2.416	4.867	39.400	1.0656	0.2494
ARITH. STD. DEV :	18.394	9.641	1.349	4.233	16.828	1.1910	0.2028
GEOM. MEAN :	45.687	6.385	2.160	3.292	36.325	0.7654	0.2025
GEOM. STD. DEV. :	1.425	2.333	1.766	2.787	1.526	2.5318	1.8974
1ST QUARTILE :	32.950	2.800	1.290	1.899	25.632	0.2100	0.1428
2ND QUARTILE :	40.079	5.334	2.756	4.130	31.478	0.5960	0.1676
3RD QUARTILE :	58.100	10.408	3.310	5.582	49.792	1.3020	0.2320
VOL. WGT. MEAN :	44.749	8.549	2.377	4.788	37.572	0.9832	0.2252

****** : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PALMERSTON/CUMULATIVE PRECIP. #08

PERIOD OF REPORT : JAN 4, 84 TO DEC 31,84

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES :	11	11	10	11	11	10	11
MAXIMUM :	0.0750	1.486	18.8107	0.7431	0.150	20.916	0.1555
MINIMUM :	0.0083	0.195	0.8196	0.2542	0.015	1.368	0.0125
RANGE :	0.0667	1.291	17.9910	0.4889	0.135	19.548	0.1430
ARITH. MEAN :	0.0293	0.545	4.4785	0.5119	0.053	4.974	0.0735
ARITH. STD. DEV :	0.0213	0.340	5.4922	0.1408	0.044	5.968	0.0432
GEOM. MEAN :	0.0228	0.479	2.8060	0.4919	0.039	3.285	0.0600
GEOM. STD. DEV. :	2.1515	1.660	2.5897	1.3624	2.256	2.403	2.0946
1ST QUARTILE :	0.0091	0.359	1.2837	0.3743	0.017	1.480	0.0308
2ND QUARTILE :	0.0213	0.434	2.6523	0.4973	0.033	3.281	0.0665
3RD QUARTILE :	0.0369	0.611	3.6630	0.6031	0.072	4.089	0.0970
VOL. WGT. MEAN :	0.0282	0.525	4.0599	0.4928	0.051	4.589	0.0708

	CADMIUM MG/M**2
# OF SAMPLES :	11
MAXIMUM :	0.01500
MINIMUM :	0.00400
RANGE :	0.01100
ARITH. MEAN :	0.00754
ARITH. STD. DEV :	0.00331
GEOM. MEAN :	0.00697
GEOM. STD. DEV. :	1.50558
1ST QUARTILE :	0.00469
2ND QUARTILE :	0.00642
3RD QUARTILE :	0.00902
VOL. WGT. MEAN :	0.00726

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PICKLE LAKE/CUMULATIVE PRECIP. 836

PERIOD OF REPORT : JAN 1, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	11	9	10	10	10	9	10
MAXIMUM :	94.0	0.8998	2.0160	154.70	20.680	28.200	17.780
MINIMUM :	0.8	0.0175	0.3291	5.44	0.000	0.486	1.458
RANGE :	93.2	0.8823	1.6869	149.25	20.680	27.714	16.322
ARITH. MEAN :	47.6	0.4347	1.4279	55.79	8.947	9.122	7.477
ARITH. STD. DEV :	30.3	0.3244	0.5733	50.08	7.148	8.847	6.288
GEOM. MEAN :	38.5	0.2755	1.2486	33.04	5.378	5.651	5.349
GEOM. STD. DEV. :	3.9	3.5199	1.8902	3.42	2.898	3.241	2.397
1ST QUARTILE :	14.1	0.1525	0.9301	7.09	0.303	3.516	2.768
2ND QUARTILE :	47.8	0.3258	1.6473	42.31	11.178	5.380	4.695
3RD QUARTILE :	69.8	0.5946	1.7132	73.75	12.320	8.708	10.907
VOL. WGT. MEAN :	########	0.3902	1.3001	50.80	8.146	8.187	6.808

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHORUS MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	9	9	10	10	10	9	9
MAXIMUM :	93.472	5.640	12.698	16.062	28.200	3.1020	0.5640
MINIMUM :	0.972	0.243	0.000	0.000	0.012	0.1275	0.0324
RANGE :	92.500	5.397	12.690	16.002	28.188	2.9745	0.5316
ARITH. MEAN :	23.598	1.602	3.505	4.971	7.793	0.8144	0.1726
ARITH. STD. DEV :	29.657	1.649	4.906	5.599	8.800	0.9681	0.1668
GEOM. MEAN :	12.075	1.108	1.496	2.741	1.866	0.5034	0.1196
GEOM. STD. DEV. :	3.745	2.455	4.909	3.271	15.726	2.6887	2.4919
1ST QUARTILE :	6.225	0.652	0 039	0.575	0.433	0.2538	0.0524
2ND QUARTILE :	9.680	0.879	1.385	2.748	4.714	0.3758	0.1165
3RD QUARTILE :	19.092	1.512	3.666	6.625	10.834	0.6022	0.1696
VOL. WGT. MEAN :	19.795	1.438	3.191	4.526	7.096	0.6831	0.1549

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PICKLE LAKE/CUMULATIVE PRECIP. #36

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	NICKEL MG/MM**2	ZINC MG/MM**2	IRON MG/MM**2	LEAD MG/MM**2	VANADIUM MG/MM**2	ALUMINUM MG/MM**2	COPPER MG/MM**2
# OF SAMPLES	10	10	9	10	10	9	10
MAXIMUM	0.0470	0.542	8.0718	0.4574	0.094	8.187	0.1384
MINIMUM	0.0060	0.048	0.1611	0.0238	0.010	0.370	0.0220
RANGE	0.0409	0.494	7.9107	0.4336	0.084	7.817	0.1084
ARITH. MEAN	0.0276	0.194	2.0461	0.2062	0.044	2.252	0.0616
ARITH. STD. DEV	0.0136	0.141	2.3862	0.1341	0.033	2.339	0.0316
GEOM. MEAN	0.0235	0.155	1.2510	0.1561	0.032	1.602	0.0543
GEOM. STD. DEV.	1.9538	2.065	2.9840	2.4651	2.491	2.336	1.7274
1ST QUARTILE	0.0128	0.079	0.6267	0.0838	0.011	1.031	0.0348
2ND QUARTILE	0.0314	0.161	1.3367	0.1754	0.038	1.352	0.0572
3RD QUARTILE	0.0345	0.232	1.9157	0.2938	0.069	2.079	0.0747
VOL. WGT. MEAN	0.0251	0.177	1.8365	0.1877	0.040	2.021	0.0561

	CADMIUM MG/MM**2
# OF SAMPLES	10
MAXIMUM	0.00711
MINIMUM	0.00060
RANGE	0.00651
ARITH. MEAN	0.00415
ARITH. STD. DEV	0.00226
GEOM. MEAN	0.00327
GEOM. STD. DEV.	2.34357
1ST QUARTILE	0.00196
2ND QUARTILE	0.00440
3RD QUARTILE	0.00535
VOL. WGT. MEAN	0.00378

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PORT STANLEY/CUMULATIVE PRECIP. 803

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH6.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	10	12	13	13	10	12
MAXIMUM :	178.0	19.9720	25.8456	1085.80	117.480	51.620	30.260
MINIMUM :	30.0	3.0611	1.0952	133.50	21.000	6.400	9.360
RANGE :	148.0	16.9109	24.7504	952.30	96.480	45.220	20.900
ARITH. MEAN :	72.4	6.6812	7.3284	331.81	48.140	24.048	15.891
ARITH. STD. DEV :	35.9	4.9006	6.5498	245.34	24.533	14.062	6.152
GEOM. MEAN :	66.2	5.7539	5.2528	282.98	43.844	20.107	14.920
GEOM. STD. DEV. :	1.5	1.6740	2.4538	1.71	1.539	1.956	1.441
1ST QUARTILE :	57.3	4.2437	3.2151	193.36	31.995	11.997	10.730
2ND QUARTILE :	64.0	4.9891	6.5550	257.92	43.670	22.035	15.390
3RD QUARTILE :	75.0	5.9748	7.7250	329.47	50.170	29.180	19.515
VOL. WGT. MEAN :	*********	5.9626	7.4013	331.81	48.140	21.462	15.151

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	13	11	13	12	12	12	12
MAXIMUM :	119.260	14.250	12.460	9.065	93.450	2.8800	1.0680
MINIMUM :	11.100	0.405	0.075	0.390	3.182	0.0000	0.1110
RANGE :	108.160	13.845	12.385	8.675	90.268	2.8800	0.9570
ARITH. MEAN :	42.967	5.085	3.878	5.861	36.859	0.9922	0.2863
ARITH. STD. DEV :	27.640	4.050	3.137	2.623	24.069	0.9330	0.2646
GEOM. MEAN :	36.144	3.434	2.393	4.719	28.277	0.7825	0.2269
GEOM. STD. DEV. :	1.859	2.938	3.865	2.439	2.419	2.3775	1.8908
1ST QUARTILE :	22.540	1.616	2.325	4.715	19.715	0.4005	0.1450
2ND QUARTILE :	35.490	4.110	3.010	6.355	36.210	0.5730	0.2142
3RD QUARTILE :	53.415	7.000	4.680	7.888	48.490	1.4570	0.2640
VOL. WGT. MEAN :	42.967	4.814	3.878	5.589	35.143	0.9460	0.2832

***** : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : PORT STANLEY/CUMULATIVE PRECIP. #03

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES :	13	13	11	13	13	10	13
MAXIMUM :	0.0890	1.537	9.2987	0.9790	0.178	9.788	0.1112
MINIMUM :	0.0115	0.278	1.0514	0.1159	0.013	1.241	0.0100
RANGE :	0.0775	1.259	8.2473	0.8631	0.165	8.547	0.1013
ARITH. MEAN :	0.0356	0.572	2.8753	0.5271	0.063	3.151	0.0574
ARITH. STD. DEV :	0.0208	0.314	2.4433	0.2513	0.042	2.578	0.0297
GEOM. MEAN :	0.0308	0.522	2.2746	0.4596	0.051	2.549	0.0476
GEOM. STD. DEV. :	1.7679	1.511	1.9521	1.8136	2.032	1.893	2.0761
1ST QUARTILE :	0.0214	0.402	1.2892	0.3088	0.033	1.490	0.0417
2ND QUARTILE :	0.0317	0.503	1.7928	0.4880	0.060	2.090	0.0539
3RD QUARTILE :	0.0375	0.553	3.1237	0.6915	0.069	3.401	0.0658
VOL. WGT. MEAN :	0.0356	0.572	2.7220	0.5271	0.063	2.813	0.0574

	CADMIUM MG/M**2
# OF SAMPLES :	13
MAXIMUM :	0.01880
MINIMUM :	0.00320
RANGE :	0.01560
ARITH. MEAN :	0.00806
ARITH. STD. DEV :	0.00561
GEOM. MEAN :	0.00668
GEOM. STD. DEV. :	1.84059
1ST QUARTILE :	0.00387
2ND QUARTILE :	0.00585
3RD QUARTILE :	0.00720
VOL. WGT. MEAN :	0.00806

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/CUMULATIVE PRECIP. #32

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	12	12	12	12	12	11
MAXIMUM :	103.7	1.2456	3.2538	137.90	20.685	52.205	10.835
MINIMUM :	0.0	0.0941	0.4234	14.79	0.000	0.981	1.165
RANGE :	103.7	1.1515	2.8304	123.11	20.685	51.224	9.670
ARITH. MEAN :	54.2	0.6074	1.9441	60.92	12.067	12.446	4.781
ARITH. STD. DEV :	36.9	0.3822	0.9614	35.88	6.624	13.628	2.931
GEOM. MEAN :	33.9	0.4701	1.6643	50.00	9.545	7.786	4.077
GEOM. STD. DEV. :	2.4	2.2997	1.9009	2.03	1.755	2.925	1.824
1ST QUARTILE :	20.8	0.2791	1.2148	30.55	6.160	3.937	3.103
2ND QUARTILE :	46.7	0.6309	1.8369	66.42	13.968	10.251	3.801
3RD QUARTILE :	82.3	0.8812	2.9095	77.91	17.498	14.180	4.945
VOL. WGT. MEAN :	********	0.5606	1.7945	56.23	11.138	11.488	4.154

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	11	12	12	11	12	10	11
MAXIMUM :	50.235	7.880	5.417	6.895	22.816	2.1670	1.3790
MINIMUM :	3.924	0.163	0.000	0.000	1.288	0.0350	0.0327
RANGE :	46.311	7.716	5.417	6.895	21.528	2.1320	1.3463
ARITH. MEAN :	20.298	1.908	1.455	2.024	12.063	0.5897	0.2869
ARITH. STD. DEV :	13.906	2.163	1.771	2.194	7.378	0.6407	0.3764
GEOM. MEAN :	15.951	1.163	0.849	1.542	8.710	0.3341	0.1694
GEOM. STD. DEV. :	2.171	2.884	3.344	2.400	2.727	3.4055	2.9131
1ST QUARTILE :	7.303	0.523	0.287	0.192	4.946	0.1268	0.0513
2ND QUARTILE :	15.690	1.100	0.765	1.394	13.510	0.3468	0.2069
3RD QUARTILE :	25.385	2.134	2.014	2.373	17.645	0.8228	0.2640
VOL. WGT. MEAN :	17.318	1.761	1.343	1.758	11.135	0.4697	0.2448

***** : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/CUMULATIVE PRECIP. 832

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES	11	11	11	11	11	10	11
MAXIMUM	0.0518	0.333	25.3539	0.7492	0.104	7.211	0.1317
MINIMUM	0.0065	0.055	0.6037	0.0432	0.008	0.477	0.0201
RANGE	0.0453	0.278	24.7502	0.7060	0.095	6.734	0.1116
ARITH. MEAN	0.0287	0.154	4.1625	0.2298	0.056	2.375	0.0607
ARITH. STD. DEV	0.0182	0.094	7.1996	0.1964	0.038	1.843	0.0369
GEOM. MEAN	0.0226	0.133	2.0435	0.1735	0.041	1.911	0.0513
GEOM. STD. DEV.	2.1537	1.733	2.9786	2.2011	2.484	2.009	1.8463
1ST QUARTILE	0.0104	0.088	0.7218	0.0968	0.016	1.257	0.0271
2ND QUARTILE	0.0211	0.122	1.7064	0.1700	0.042	1.974	0.0478
3RD QUARTILE	0.0466	0.161	2.6695	0.2695	0.093	2.475	0.0754
VOL. WGT. MEAN	0.0244	0.131	3.5513	0.1961	0.048	2.144	0.0518

	CADMIUM MG/M**2
# OF SAMPLES	11
MAXIMUM	0.01881
MINIMUM	0.00092
RANGE	0.01789
ARITH. MEAN	0.00647
ARITH. STD. DEV	0.00505
GEOM. MEAN	0.00484
GEOM. STD. DEV.	2.33536
1ST QUARTILE	0.00215
2ND QUARTILE	0.00506
3RD QUARTILE	0.00876
VOL. WGT. MEAN	0.00552

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SHALLOW LAKE/CUMULATIVE PRECIP. 809

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	12	12	13	13	13	13
MAXIMUM :	140.0	0.0334	11.9000	518.00	71.400	38.318	16.800
MINIMUM :	23.8	0.7328	0.6283	85.10	15.340	6.240	3.900
RANGE :	116.2	0.1006	11.2717	432.90	56.060	32.078	12.900
ARITH. MEAN :	70.4	4.1134	5.6164	225.10	38.863	19.608	10.041
ARITH. STD. DEV :	31.8	1.9889	2.9472	121.78	14.595	11.271	3.969
GEOM. MEAN :	63.2	3.5979	4.5818	197.72	36.075	16.374	9.256
GEOM. STD. DEV. :	1.7	1.8314	2.2104	1.70	1.524	1.928	1.546
1ST QUARTILE :	47.0	2.9493	4.5020	126.03	28.785	8.685	6.335
2ND QUARTILE :	68.5	3.8768	5.5023	175.15	39.460	15.925	9.255
3RD QUARTILE :	79.0	5.0780	7.3874	284.37	42.980	25.135	12.670
VOL. MGT. MEAN :	########	3.8984	5.8783	225.10	38.863	19.608	10.041

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	13	13	13	13	12	12	12
MAXIMUM :	66.430	9.520	3.500	6.480	60.200	0.9490	0.4200
MINIMUM :	15.340	0.960	0.115	0.335	14.430	0.0000	0.0480
RANGE :	51.090	8.560	3.385	6.145	45.770	0.9490	0.3720
ARITH. MEAN :	36.418	4.356	1.868	3.364	31.368	0.4447	0.1992
ARITH. STD. DEV :	17.127	2.911	1.132	2.151	13.940	0.3202	0.1140
GEOM. MEAN :	32.691	3.328	1.323	2.374	28.520	0.4192	0.1669
GEOM. STD. DEV. :	1.637	2.270	2.898	2.838	1.592	2.0660	1.9313
1ST QUARTILE :	20.160	1.450	0.635	1.424	18.726	0.1370	0.1110
2ND QUARTILE :	32.025	3.275	2.112	3.135	29.925	0.4045	0.1780
3RD QUARTILE :	44.887	6.370	2.565	4.745	42.035	0.7230	0.2705
VOL. MGT. MEAN :	36.418	4.356	1.868	3.364	30.488	0.4215	0.1888

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SHALLOW LAKE/CUMULATIVE PRECIP. #09

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES	13	12	12	13	13	12	13
MAXIMUM	0.0700	0.618	3.9430	0.7483	0.140	4.551	0.1137
MINIMUM	0.0070	0.135	0.7267	0.1532	0.014	0.535	0.0112
RANGE	0.0630	0.483	3.2163	0.5951	0.126	4.016	0.1024
ARITH. MEAN	0.0281	0.369	1.9777	0.4962	0.058	2.490	0.0541
ARITH. STD. DEV	0.0180	0.129	0.9509	0.1614	0.034	1.433	0.0288
GEOM. MEAN	0.0230	0.344	1.7641	0.4644	0.049	2.063	0.0458
GEOM. STD. DEV.	1.9767	1.515	1.6751	1.5161	1.878	1.987	1.9382
1ST QUARTILE	0.0124	0.318	1.2216	0.3841	0.030	1.358	0.0363
2ND QUARTILE	0.0235	0.369	1.9120	0.5145	0.047	2.305	0.0521
3RD QUARTILE	0.0350	0.445	2.4832	0.6026	0.070	3.757	0.0596
VOL. WGT. MEAN	0.0281	0.350	1.8744	0.4962	0.058	2.360	0.0541

	CADMIUM MG/M**2
# OF SAMPLES	13
MAXIMUM	0.01400
MINIMUM	0.00238
RANGE	0.01162
ARITH. MEAN	0.00780
ARITH. STD. DEV	0.00395
GEOM. MEAN	0.00673
GEOM. STD. DEV.	1.92641
1ST QUARTILE	0.00412
2ND QUARTILE	0.00755
3RD QUARTILE	0.00887
VOL. WGT. MEAN	0.00780

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SMITH'S FALLS/CUMULATIVE PRECIP. #15

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES	13	9	11	12	12	10	9
MAXIMUM	120.0	8.0938	9.4080	391.60	58.960	50.470	16.200
MINIMUM	24.3	1.2876	0.6370	76.00	19.980	7.770	5.792
RANGE	95.7	6.8062	8.7710	315.60	38.980	42.700	10.408
ARITH. MEAN	60.8	4.0188	4.2217	206.39	34.369	19.345	10.766
ARITH. STD. DEV	32.8	2.3671	2.7151	109.24	12.874	14.417	4.348
GEOM. MEAN	53.9	3.4358	3.3432	180.89	32.286	15.717	9.978
GEOM. STD. DEV.	1.7	1.8282	2.1900	1.72	1.444	1.917	1.519
1ST QUARTILE	36.6	2.1695	1.8565	112.42	23.905	8.625	6.595
2ND QUARTILE	43.5	3.0443	3.2770	163.02	30.523	13.360	8.737
3RD QUARTILE	74.5	4.4806	5.7582	293.92	44.300	21.060	14.200
VOL. WGT. MEAN	#########	3.7006	4.1147	196.55	32.731	18.286	9.145

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES	11	9	11	9	11	11	12
MAXIMUM	59.840	9.987	7.040	8.360	40.040	2.4320	1.2320
MINIMUM	10.260	1.480	0.000	1.991	5.852	0.0000	0.0740
RANGE	49.580	8.507	7.040	6.369	34.188	2.4320	1.1580
ARITH. MEAN	25.383	3.601	1.866	4.232	19.297	0.7384	0.3302
ARITH. STD. DEV	14.365	2.634	2.375	2.254	10.099	0.9445	0.3253
GEOM. MEAN	22.276	2.998	1.040	3.745	16.843	0.3543	0.2379
GEOM. STD. DEV.	1.699	1.846	3.530	1.686	1.769	4.8823	2.2422
1ST QUARTILE	13.095	1.632	0.197	2.160	9.310	0.0368	0.1260
2ND QUARTILE	21.866	2.857	0.980	3.483	17.659	0.2610	0.2167
3RD QUARTILE	30.600	3.700	1.900	4.700	24.105	1.0850	0.3562
VOL. WGT. MEAN	23.671	3.316	1.740	3.595	17.996	0.6886	0.3144

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SMITH'S FALLS/CUMULATIVE PRECIP. 815

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES :	12	10	11	11	12	11	11
MAXIMUM :	0.0600	1.016	9.3280	0.8467	0.120	11.114	0.2384
MINIMUM :	0.0080	0.301	0.8383	0.1346	0.019	1.302	0.0216
RANGE :	0.0520	0.715	8.4897	0.7121	0.101	9.812	0.2168
ARITH. MEAN :	0.0284	0.524	2.8809	0.4285	0.059	3.315	0.0772
ARITH. STD. DEV :	0.0177	0.236	2.6227	0.2235	0.034	3.039	0.0633
GEOM. MEAN :	0.0237	0.484	2.1409	0.3686	0.051	2.589	0.0607
GEOM. STD. DEV. :	1.8900	1.506	2.1591	1.8403	1.783	1.936	2.0181
1ST QUARTILE :	0.0161	0.325	1.0551	0.1823	0.036	1.566	0.0322
2ND QUARTILE :	0.0217	0.481	1.7162	0.4307	0.048	2.082	0.0555
3RD QUARTILE :	0.0392	0.545	3.2254	0.5645	0.078	2.713	0.0849
VOL. WGT. MEAN :	0.0270	0.475	2.7285	0.4059	0.056	3.140	0.0731

	CADMIUM MG/M**2
# OF SAMPLES :	12
MAXIMUM :	0.01760
MINIMUM :	0.00190
RANGE :	0.01570
ARITH. MEAN :	0.00571
ARITH. STD. DEV :	0.00402
GEOM. MEAN :	0.00490
GEOM. STD. DEV. :	1.71978
1ST QUARTILE :	0.00356
2ND QUARTILE :	0.00485
3RD QUARTILE :	0.00600
VOL. WGT. MEAN :	0.00544

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : TURKEY LAKE/CUMULATIVE PRECIP. #37

PERIOD OF REPORT : JAN 4, 84 TO JAN 1,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	12	12	11	11	11	12	11
MAXIMUM :	164.1	9.6629	13.4562	631.78	65.608	66.396	22.610
MINIMUM :	4.6	0.3489	0.5400	51.93	14.881	1.932	3.882
RANGE :	159.5	9.3140	12.9162	579.85	50.727	64.464	18.728
ARITH. MEAN :	85.5	3.0845	5.1363	240.18	35.675	22.529	10.242
ARITH. STD. DEV :	48.1	2.3344	3.3433	155.09	15.200	19.032	6.829
GEOM. MEAN :	65.9	2.4167	4.0910	201.80	32.830	15.736	8.306
GEOM. STD. DEV. :	2.6	2.2058	2.2441	1.89	1.541	2.609	1.979
1ST QUARTILE :	54.2	2.0463	2.9376	139.91	23.962	9.145	4.005
2ND QUARTILE :	82.0	2.8646	4.0625	191.27	29.009	15.314	6.804
3RD QUARTILE :	111.8	3.1435	6.0582	269.26	47.118	30.328	16.388
VOL. MGT. MEAN :	********	3.0845	5.5884	221.16	32.850	22.529	9.431

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	11	12	12	12	12	11	11
MAXIMUM :	80.409	14.971	20.516	8.048	72.284	2.5350	1.4084
MINIMUM :	18.464	0.404	0.000	0.000	0.598	0.1489	0.0577
RANGE :	61.945	14.568	20.516	8.048	71.686	2.3860	1.3507
ARITH. MEAN :	45.930	4.023	4.662	3.010	32.953	0.7650	0.4413
ARITH. STD. DEV :	21.039	4.549	6.394	2.361	20.004	0.7001	0.3996
GEOM. MEAN :	41.090	2.389	2.625	2.368	22.596	0.5558	0.3085
GEOM. STD. DEV. :	1.678	2.938	2.662	2.122	3.547	2.2877	2.5037
1ST QUARTILE :	21.732	1.296	1.289	0.899	16.976	0.2753	0.1385
2ND QUARTILE :	40.873	2.314	1.641	2.779	33.192	0.4713	0.3104
3RD QUARTILE :	63.274	4.658	7.091	4.101	48.384	0.9057	0.5506
VOL. MGT. MEAN :	42.293	4.023	4.662	3.010	32.953	0.7044	0.4063

***** : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : TURKEY LAKE/CUMULATIVE PRECIP. #37

PERIOD OF REPORT : JAN 4, 84 TO JAN 1,85

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	0.1292	1.584	11.2278	2.3918	0.164	16.408	0.1344
MINIMUM :	0.0191	0.134	1.2094	0.2361	0.022	1.066	0.0527
RANGE :	0.1100	1.450	10.0176	2.1557	0.142	15.342	0.0817
ARITH. MEAN :	0.0526	0.565	4.5686	0.7644	0.073	5.264	0.0943
ARITH. STD. DEV :	0.0327	0.426	3.6647	0.5839	0.042	4.761	0.0313
GEOM. MEAN :	0.0452	0.446	3.4199	0.6335	0.063	3.743	0.0890
GEOM. STD. DEV. :	1.7831	2.063	2.2214	1.8429	1.806	2.369	1.4438
1ST QUARTILE :	0.0271	0.233	1.5709	0.3579	0.035	1.804	0.0554
2ND QUARTILE :	0.0410	0.419	2.8112	0.6049	0.060	2.994	0.0993
3RD QUARTILE :	0.0666	0.660	6.3635	0.8016	0.100	7.179	0.1183
VOL. WGT. MEAN :	0.0486	0.521	4.2068	0.7038	0.067	4.847	0.0868

	CADMIUM MG/M**2
# OF SAMPLES :	11
MAXIMUM :	0.01641
MINIMUM :	0.00309
RANGE :	0.01331
ARITH. MEAN :	0.00771
ARITH. STD. DEV :	0.00436
GEOM. MEAN :	0.00669
GEOM. STD. DEV. :	1.74654
1ST QUARTILE :	0.00410
2ND QUARTILE :	0.00542
3RD QUARTILE :	0.01129
VOL. WGT. MEAN :	0.00710

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : UXBRIDGE/CUMULATIVE PRECIP. #11

PERIOD OF REPORT : JAN 2, 84 TO JAN 2,85 PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	10	11	11	11	11	11
MAXIMUM :	125.0	8.2587	11.8250	443.75	65.000	90.720	22.800
MINIMUM :	35.0	1.3617	1.0944	56.11	24.150	8.326	6.800
RANGE :	90.0	6.8970	10.7306	387.64	40.850	82.394	16.000
ARITH. MEAN :	63.8	3.3529	4.9395	205.36	37.832	34.810	13.365
ARITH. STD. DEV :	26.9	1.9615	2.8038	99.76	10.791	23.300	5.106
GEOM. MEAN :	59.0	2.9551	4.2519	182.78	36.647	27.953	12.489
GEOM. STD. DEV. :	1.5	1.6762	1.8346	1.71	1.293	2.082	1.477
1ST QUARTILE :	38.1	1.9480	2.9709	130.11	30.690	11.694	8.594
2ND QUARTILE :	57.9	2.9799	4.4987	183.00	35.700	31.225	11.904
3RD QUARTILE :	74.0	3.3949	5.3873	235.05	38.300	42.671	16.670
VOL. WGT. MEAN :	********	2.7780	3.8945	161.92	29.829	29.827	11.924

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	11	11	11	11	11	11	11
MAXIMUM :	53.622	9.120	5.655	9.880	49.319	1.5660	0.4320
MINIMUM :	10.640	1.267	0.190	1.600	6.080	0.0662	0.0724
RANGE :	42.982	7.853	5.465	8.280	43.239	1.4998	0.3596
ARITH. MEAN :	29.545	4.560	2.173	4.663	23.399	0.5702	0.2297
ARITH. STD. DEV :	16.622	2.933	1.903	2.900	14.694	0.5012	0.1174
GEOM. MEAN :	25.252	3.609	1.275	3.958	19.097	0.4008	0.1996
GEOM. STD. DEV. :	1 824	2.144	3.428	1.814	2.002	2.5063	1.8000
1ST QUARTILE :	13.200	1.349	0.275	2.433	9.900	0.2162	0.0992
2ND QUARTILE :	23.980	4.200	1.564	3.312	18.012	0.3105	0.2140
3RD QUARTILE :	45.840	6.233	3.320	5.969	35.520	0.6681	0.2840
VOL. WGT. MEAN :	23.295	3.907	1.714	4.160	18.449	0.4496	0.1968

***** : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : UXBRIDGE/CUMULATIVE PRECIP. #11

PERIOD OF REPORT : JAN 2, 84 TO JAN 2,85 PAGE : 2

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES :	11	11	11	9	11	10	11
MAXIMUM :	0.0724	0.891	6.5452	0.9134	0.125	6.265	0.2496
MINIMUM :	0.0120	0.279	1.1493	0.2594	0.024	1.485	0.0394
RANGE :	0.0604	0.613	5.3959	0.6540	0.101	4.780	0.2102
ARITH. MEAN :	0.0352	0.451	3.3356	0.4873	0.060	3.628	0.1008
ARITH. STD. DEV :	0.0186	0.191	1.8977	0.1994	0.029	1.848	0.0674
GEOM. MEAN :	0.0310	0.421	2.8790	0.4545	0.055	3.211	0.0842
GEOM. STD. DEV. :	1.7110	1.444	1.7734	1.4827	1.611	1.697	1.8418
1ST QUARTILE :	0.0187	0.305	1.6675	0.3396	0.036	2.104	0.0493
2ND QUARTILE :	0.0305	0.379	2.5683	0.4125	0.052	2.769	0.0650
3RD QUARTILE :	0.0407	0.484	4.5668	0.5589	0.074	5.018	0.1426
VOL. WGT. MEAN :	0.0277	0.355	2.6300	0.3474	0.048	2.793	0.0795

	CADMIUM MG/M**2
# OF SAMPLES :	11
MAXIMUM :	0.02280
MINIMUM :	0.00362
RANGE :	0.01918
ARITH. MEAN :	0.00794
ARITH. STD. DEV :	0.00523
GEOM. MEAN :	0.00698
GEOM. STD. DEV. :	1.62900
1ST QUARTILE :	0.00478
2ND QUARTILE :	0.00643
3RD QUARTILE :	0.00795
VOL. WGT. MEAN :	0.00626

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WATERLOO/CUMULATIVE PRECIP. #07

PERIOD OF REPORT : JAN 3, 84 TO JAN 1,85 PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	11	12	13	13	11	13
MAXIMUM :	129.0	8.3020	11.7600	546.00	67.080	65.790	20.910
MINIMUM :	31.0	1.8254	1.0416	68.20	14.760	6.820	6.970
RANGE :	98.0	6.4766	10.7184	477.80	52.320	58.970	13.940
ARITH. MEAN :	68.4	4.2161	5.6580	259.89	38.011	24.776	13.352
ARITH. STD. DEV :	30.1	1.9330	3.1773	138.46	13.104	16.237	3.811
GEOM. MEAN :	62.8	3.8632	4.7238	228.62	35.371	20.681	12.840
GEOM. STD. DEV. :	1.5	1.5429	1.9862	1.72	1.492	1.894	1.344
1ST QUARTILE :	41.5	2.7830	3.4651	184.65	29.415	11.460	10.285
2ND QUARTILE :	62.5	3.6511	5.3646	217.80	31.710	22.725	12.760
3RD QUARTILE :	76.5	4.6782	7.3752	253.27	39.185	29.850	14.895
VOL. WGT. MEAN :	########	3.9349	5.7677	259.89	38.011	23.123	13.352

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	12	11	12	13	10	12	12
MAXIMUM :	117.390	16.125	6.930	9.430	81.270	2.9670	0.6970
MINIMUM :	11.480	0.930	0.300	0.900	14.400	0.0000	0.0620
RANGE :	105.910	15.195	6.630	8.530	66.870	2.9670	0.6350
ARITH. MEAN :	40.866	5.395	2.641	4.738	37.319	0.7159	0.2982
ARITH. STD. DEV :	29.762	4.325	2.298	2.799	21.777	0.7861	0.2083
GEOM. MEAN :	33.451	4.044	1.664	3.870	32.577	0.5567	0.2380
GEOM. STD. DEV. :	1.909	2.286	2.981	2.051	1.715	2.5512	2.0490
1ST QUARTILE :	22.225	2.050	0.862	2.525	20.967	0.2550	0.1615
2ND QUARTILE :	32.440	3.942	1.567	3.975	31.555	0.5300	0.2010
3RD QUARTILE :	46.045	6.945	4.355	5.785	37.700	0.9000	0.4160
VOL. WGT. MEAN :	39.595	5.035	2.556	4.738	32.930	0.6936	0.2890

######## : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WATERLOO/CUMULATIVE PRECIP. #07

PERIOD OF REPORT : JAN 3, 84 TO JAN 1,85 PAGE : 2

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES	13	13	12	13	13	12	13
MAXIMUM	0.0645	1.011	25.2240	1.9620	0.129	20.988	0.2023
MINIMUM	0.0065	0.389	1.3698	0.0971	0.014	0.936	0.0488
RANGE	0.0580	0.623	23.8542	1.8649	0.115	20.052	0.1535
ARITH. MEAN	0.0287	0.551	5.8411	0.7006	0.054	4.749	0.0891
ARITH. STD. DEV	0.0181	0.182	7.4834	0.5094	0.038	5.811	0.0536
GEOM. MEAN	0.0237	0.528	3.4229	0.5518	0.043	2.977	0.0776
GEOM. STD. DEV.	1.9541	1.331	2.6848	2.1267	2.041	2.549	1.6868
1ST QUARTILE	0.0146	0.430	1.5860	0.3795	0.024	1.568	0.0511
2ND QUARTILE	0.0207	0.473	2.5716	0.4689	0.041	2.512	0.0574
3RD QUARTILE	0.0333	0.552	5.7981	0.8855	0.063	5.194	0.1096
VOL. WGT. MEAN	0.0287	0.551	5.6591	0.7006	0.054	4.602	0.0891

	CADMIUM MG/M**2
# OF SAMPLES	13
MAXIMUM	0.01300
MINIMUM	0.00205
RANGE	0.01095
ARITH. MEAN	0.00714
ARITH. STD. DEV	0.00390
GEOM. MEAN	0.00613
GEOM. STD. DEV.	1.81368
1ST QUARTILE	0.00390
2ND QUARTILE	0.00586
3RD QUARTILE	0.00966
VOL. WGT. MEAN	0.00714

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITNEY/CUMULATIVE PRECIP. #19

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES	12	11	10	11	11	11	11
MAXIMUM	112.0	6.1549	8.9824	430.50	52.500	39.900	49.770
MINIMUM	37.1	1.1837	3.2802	80.85	17.710	1.880	3.080
RANGE	74.9	4.9711	5.7022	349.65	34.790	38.020	46.690
ARITH. MEAN	72.8	3.0982	5.4208	195.14	28.408	13.592	11.598
ARITH. STD. DEV	24.5	1.6161	2.0937	110.20	9.287	12.271	13.019
GEOM. MEAN	68.7	2.7271	5.0797	169.48	27.269	9.631	8.588
GEOM. STD. DEV.	1.4	1.7151	1.4578	1.75	1.337	2.422	2.030
1ST QUARTILE	52.5	1.5214	3.4965	91.65	21.000	4.980	5.480
2ND QUARTILE	73.0	2.6931	4.8347	176.55	27.030	8.690	7.675
3RD QUARTILE	91.0	3.8802	6.6503	239.30	30.170	15.050	9.510
VOL. WGT. MEAN	********	2.5440	4.5590	160.23	23.326	11.160	9.523

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES	11	11	11	11	11	11	11
MAXIMUM	96.600	8.400	47.565	22.050	68.775	8.0640	0.9240
MINIMUM	8.460	0.375	0.000	0.187	4.700	0.0355	0.0470
RANGE	88.140	8.025	47.565	21.862	64.075	8.0285	0.8770
ARITH. MEAN	33.145	2.661	7.558	3.998	23.207	1.9590	0.2497
ARITH. STD. DEV	26.706	2.478	14.475	6.267	18.009	2.6348	0.2947
GEOM. MEAN	25.079	1.778	2.056	1.819	18.014	0.5626	0.1573
GEOM. STD. DEV.	2.206	2.675	5.309	3.717	2.140	6.6693	2.5312
1ST QUARTILE	10.410	0.675	0.110	0.632	9.198	0.0815	0.0795
2ND QUARTILE	24.970	1.785	1.090	1.380	16.802	0.4450	0.1230
3RD QUARTILE	41.570	2.975	5.915	4.060	29.785	3.3250	0.2030
VOL. WGT. MEAN	27.215	2.185	6.206	3.283	19.055	1.6085	0.2051

***** : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITNEY/CUMULATIVE PRECIP. 819

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85 PAGE : 2

	NICKEL MG/MM**2	ZINC MG/MM**2	IRON MG/MM**2	LEAD MG/MM**2	VANADIUM MG/MM**2	ALUMINUM MG/MM**2	COPPER MG/MM**2
# OF SAMPLES	11	11	11	11	11	11	11
MAXIMUM	0.0560	0.564	10.7142	1.2001	0.112	11.823	0.1826
MINIMUM	0.0075	0.137	0.5047	0.1863	0.015	0.817	0.0137
RANGE	0.0485	0.427	10.2095	1.0139	0.097	11.006	0.1689
ARITH. MEAN	0.0344	0.288	2.8512	0.4273	0.064	3.144	0.0890
ARITH. STD. DEV	0.0142	0.158	3.4067	0.2931	0.032	3.851	0.0549
GEOM. MEAN	0.0307	0.252	1.7588	0.3659	0.054	1.991	0.0719
GEOM. STD. DEV.	1.7568	1.703	2.6137	1.7257	1.936	2.431	2.1132
1ST QUARTILE	0.0210	0.148	0.7918	0.2296	0.030	1.028	0.0446
2ND QUARTILE	0.0345	0.194	1.2583	0.2939	0.065	1.592	0.0651
3RD QUARTILE	0.0412	0.370	2.2533	0.4478	0.082	1.991	0.1157
VOL. WGT. MEAN	0.0283	0.236	2.3411	0.3508	0.052	2.582	0.0731

	CADMIUM MG/MM**2
# OF SAMPLES	11
MAXIMUM	0.01120
MINIMUM	0.00188
RANGE	0.00932
ARITH. MEAN	0.00592
ARITH. STD. DEV	0.00311
GEOM. MEAN	0.00519
GEOM. STD. DEV.	1.73088
1ST QUARTILE	0.00355
2ND QUARTILE	0.00420
3RD QUARTILE	0.00795
VOL. WGT. MEAN	0.00486

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILBERFORCE/CUMULATIVE PRECIP. $18

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH0.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	13	13	12	13	13	13	13
MAXIMUM :	143.0	8.8492	10.7160	433.20	62.920	50.500	22.080
MINIMUM :	34.0	1.1194	2.6400	56.10	24.300	5.440	4.970
RANGE :	109.0	7.7299	8.0760	377.10	38.620	45.060	17.110
ARITH. MEAN :	76.2	4.3366	6.1117	208.17	37.556	15.810	11.047
ARITH. STD. DEV :	28.4	2.0201	2.2506	91.87	12.604	11.846	5.067
GEOM. MEAN :	71.6	3.8796	5.7318	187.81	35.918	13.303	10.109
GEOM. STD. DEV. :	1.4	1.6827	1.4652	1.66	1.350	1.758	1.544
1ST QUARTILE :	57.0	2.9359	4.6491	143.25	29.880	9.460	7.325
2ND QUARTILE :	70.5	3.8489	5.9727	211.00	33.295	11.160	9.810
3RD QUARTILE :	82.0	4.9521	7.2765	233.57	36.550	14.745	12.110
VOL. WGT. MEAN :	#########	4.3366	6.5940	208.17	37.556	15.810	11.047

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	13	13	13	13	13	13	13
MAXIMUM :	52.440	11.750	6.000	13.340	45.600	6.3000	0.4900
MINIMUM :	14.620	0.920	0.000	0.355	8.100	0.0765	0.0405
RANGE :	37.820	10.830	6.000	12.985	37.500	6.2235	0.4495
ARITH. MEAN :	28.586	2.459	1.761	4.346	22.359	0.8854	0.1743
ARITH. STD. DEV :	11.042	2.934	1.965	3.344	10.261	1.6586	0.1267
GEOM. MEAN :	26.715	1.768	1.203	3.009	20.160	0.3981	0.1416
GEOM. STD. DEV. :	1.469	2.055	2.898	2.876	1.630	3.2708	1.9399
1ST QUARTILE :	20.575	1.046	0.256	2.115	14.274	0.1282	0.0970
2ND QUARTILE :	25.645	1.410	0.876	3.785	19.305	0.3930	0.1290
3RD QUARTILE :	33.465	2.002	1.960	5.345	28.120	0.6260	0.1595
VOL. WGT. MEAN :	28.586	2.459	1.761	4.346	22.359	0.8854	0.1743

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MILBERFORCE/CUMULATIVE PRECIP. 818

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85 PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/MM2	MG/MM2	MG/MM2	MG/MM2	MG/MM2	MG/MM2	MG/MM2
# OF SAMPLES	13	13	13	13	13	13	13
MAXIMUM	0.0570	0.471	5.0550	0.6567	0.114	5.280	0.1140
MINIMUM	0.0132	0.122	1.1761	0.2027	0.013	0.755	0.0387
RANGE	0.0438	0.350	3.8789	0.4539	0.101	4.525	0.0752
ARITH. MEAN	0.0333	0.278	2.4645	0.3730	0.063	2.545	0.0735
ARITH. STD. DEV	0.0118	0.103	1.4102	0.1279	0.028	1.565	0.0262
GEOM. MEAN	0.0311	0.260	2.1499	0.3541	0.056	2.121	0.0691
GEOM. STD. DEV.	1.4918	1.475	1.6996	1.3987	1.786	1.902	1.4445
1ST QUARTILE	0.0252	0.189	1.3674	0.2922	0.042	1.374	0.0510
2ND QUARTILE	0.0332	0.258	1.7710	0.3565	0.066	1.889	0.0652
3RD QUARTILE	0.0382	0.317	2.7766	0.3910	0.076	3.235	0.0899
VOL. WGT. MEAN	0.0333	0.278	2.4645	0.3730	0.063	2.545	0.0735

	CADMIUM
	MG/MM2
# OF SAMPLES	13
MAXIMUM	0.01140
MINIMUM	0.00315
RANGE	0.00825
ARITH. MEAN	0.00638
ARITH. STD. DEV	0.00273
GEOM. MEAN	0.00578
GEOM. STD. DEV.	1.54273
1ST QUARTILE	0.00380
2ND QUARTILE	0.00505
3RD QUARTILE	0.00775
VOL. WGT. MEAN	0.00638

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MILKESPORT/CUMULATIVE PRECIP. #04

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/MM#2	TOTAL H+ TO PH8.3 MG/MM#2	SULPHATE MG/MM#2	NITRATE AS N MG/MM#2	CALCIUM MG/MM#2	CHLORIDE MG/MM#2
# OF SAMPLES :	13	10	11	12	12	11	11
MAXIMUM :	100.0	6.1953	9.0376	420.00	61.560	84.000	56.730
MINIMUM :	20.0	1.3729	0.5184	74.08	9.743	14.400	7.600
RANGE :	80.0	4.8224	8.5192	345.91	51.817	69.600	49.130
ARITH. MEAN :	53.3	3.8726	4.8638	239.26	36.599	32.750	19.354
ARITH. STD. DEV :	28.5	1.7732	2.8920	105.10	13.706	23.654	13.495
GEOM. MEAN :	46.0	3.4584	3.7913	212.42	33.570	27.241	16.627
GEOM. STD. DEV. :	1.8	1.6933	2.3684	1.74	1.615	1.817	1.712
1ST QUARTILE :	25.4	2.1536	2.3163	170.12	28.270	16.466	10.930
2ND QUARTILE :	42.5	3.9836	3.7108	246.45	37.575	21.932	14.293
3RD QUARTILE :	76.5	5.1489	7.5778	300.12	43.782	35.640	21.410
VOL. MGT. MEAN :	#########	3.6109	5.4219	247.26	37.822	32.438	19.067

	KJELDAHL AS N MG/MM#2	MAGNESIUM MG/MM#2	POTASSIUM MG/MM#2	SODIUM MG/MM#2	AMMONIUM AS N MG/MM#2	PHOSPHOR MG/MM#2	MANGANSE MG/MM#2
# OF SAMPLES :	11	11	11	10	12	12	10
MAXIMUM :	75.840	9.675	14.220	16.740	62.805	6.3200	0.3160
MINIMUM :	0.000	2.200	0.250	0.592	2.598	0.0000	0.0609
RANGE :	75.840	7.475	13.970	16.147	60.207	6.3200	0.2551
ARITH. MEAN :	37.143	4.722	4.103	6.319	28.619	1.0896	0.2059
ARITH. STD. DEV :	21.366	2.443	4.306	5.053	16.492	1.7323	0.0922
GEOM. MEAN :	26.600	4.213	2.490	4.452	21.725	0.6014	0.1839
GEOM. STD. DEV. :	1.772	1.644	3.105	2.677	2.585	3.4064	1.7097
1ST QUARTILE :	18.530	2.307	1.167	2.262	20.496	0.2319	0.1270
2ND QUARTILE :	32.869	4.176	2.472	5.532	28.420	0.4000	0.1880
3RD QUARTILE :	47.830	5.220	4.175	6.880	38.025	1.3758	0.2895
VOL. MGT. MEAN :	36.377	4.677	4.018	5.859	29.575	1.1260	0.1932

: ###### : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MILKESPORT/CUMULATIVE PRECIP. #04

PERIOD OF REPORT : JAN 3, 84 TO JAN 2,85 PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	11	10	8	10	11	8	10
MAXIMUM :	0.1209	2.076	4.3681	2.2341	0.100	5.530	0.3196
MINIMUM :	0.0100	0.396	1.1234	0.2180	0.015	0.865	0.0447
RANGE :	0.1109	1.681	3.2448	2.0161	0.085	4.665	0.2749
ARITH. MEAN :	0.0423	0.803	2.4299	0.6659	0.044	3.084	0.1159
ARITH. STD. DEV :	0.0302	0.540	1.3361	0.5660	0.030	1.464	0.0816
GEOM. MEAN :	0.0343	0.693	2.1349	0.5502	0.035	2.729	0.0967
GEOM. STD. DEV. :	2.0002	1.696	1.7154	1.7930	1.969	1.769	1.8507
1ST QUARTILE :	0.0180	0.471	1.3772	0.4388	0.019	2.161	0.0527
2ND QUARTILE :	0.0377	0.602	1.8759	0.4926	0.025	2.979	0.1049
3RD QUARTILE :	0.0478	0.713	3.7207	0.5924	0.066	3.997	0.1289
VOL. WGT. MEAN :	0.0417	0.768	2.2965	0.6370	0.043	2.914	0.1109

	CADMIUM
	MG/M**2
# OF SAMPLES :	11
MAXIMUM :	0.03000
MINIMUM :	0.00270
RANGE :	0.02730
ARITH. MEAN :	0.00920
ARITH. STD. DEV :	0.00732
GEOM. MEAN :	0.00750
GEOM. STD. DEV. :	1.91773
1ST QUARTILE :	0.00435
2ND QUARTILE :	0.00790
3RD QUARTILE :	0.00915
VOL. WGT. MEAN :	0.00907

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MINISK/CUMULATIVE PRECIP. 829

PERIOD OF REPORT : JAN 4, 84 TO JUN 22,84 PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/MM**2	TOTAL H+ TO PH8.3 MG/MM**2	SULPHATE MG/MM**2	NITRATE AS N MG/MM**2	CALCIUM MG/MM**2	CHLORIDE MG/MM**2
# OF SAMPLES :	4	0	2	0	1	0	0
MAXIMUM :	120.1	********	0.6201	********	12.806	********	********
MINIMUM :	18.2	********	0.2475	********	12.806	********	********
RANGE :	101.9	********	0.3726	********	0.000	********	********
ARITH. MEAN :	49.1	********	0.4338	********	********	********	********
ARITH. STD. DEV :	47.7	********	0.2634	********	********	********	********
GEOM. MEAN :	36.7	********	0.3918	********	********	********	********
GEOM. STD. DEV. :	2.3	********	1.9143	********	********	********	********
1ST QUARTILE :	21.4	********	********	********	********	********	********
2ND QUARTILE :	29.1	********	********	********	********	********	********
3RD QUARTILE :	76.9	********	********	********	********	********	********
VOL. WGT. MEAN :	********	********	0.8676	********	********	********	********

	K.JELDAHL AS N MG/MM**2	MAGNESIUM MG/MM**2	POTASSIUM MG/MM**2	SODIUM MG/MM**2	AMMONIUM AS N MG/MM**2	PHOSPHOR MG/MM**2	MANGANESE MG/MM**2
# OF SAMPLES :	1	0	0	0	0	1	0
MAXIMUM :	6.916	********	********	********	********	0.2366	********
MINIMUM :	6.916	********	********	********	********	0.2366	********
RANGE :	0.000	********	********	********	********	0.0000	********
ARITH. MEAN :	********	********	********	********	********	********	********
ARITH. STD. DEV :	********	********	********	********	********	********	********
GEOM. MEAN :	********	********	********	********	********	********	********
GEOM. STD. DEV. :	********	********	********	********	********	********	********
1ST QUARTILE :	********	********	********	********	********	********	********
2ND QUARTILE :	********	********	********	********	********	********	********
3RD QUARTILE :	********	********	********	********	********	********	********
VOL. WGT. MEAN :	********	********	********	********	********	********	********

: ###### : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MINISK/CUMULATIVE PRECIP. 829

PERIOD OF REPORT : JAN 4, 84 TO JUN 22,84 PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	0	0	0	0	0	0	0
MAXIMUM :	*****	*****	*****	*****	*****	*****	*****
MINIMUM :	*****	*****	*****	*****	*****	*****	*****
RANGE :	*****	*****	*****	*****	*****	*****	*****
ARITH. MEAN :	*****	*****	*****	*****	*****	*****	*****
ARITH. STD. DEV :	*****	*****	*****	*****	*****	*****	*****
GEOM. MEAN :	*****	*****	*****	*****	*****	*****	*****
GEOM. STD. DEV. :	*****	*****	*****	*****	*****	*****	*****
1ST QUARTILE :	*****	*****	*****	*****	*****	*****	*****
2ND QUARTILE :	*****	*****	*****	*****	*****	*****	*****
3RD QUARTILE :	*****	*****	*****	*****	*****	*****	*****
VOL. WGT. MEAN :	*****	*****	*****	*****	*****	*****	*****

	CADMIUM
	MG/M**2
# OF SAMPLES :	0
MAXIMUM :	*****
MINIMUM :	*****
RANGE :	*****
ARITH. MEAN :	*****
ARITH. STD. DEV :	*****
GEOM. MEAN :	*****
GEOM. STD. DEV. :	*****
1ST QUARTILE :	*****
2ND QUARTILE :	*****
3RD QUARTILE :	*****
VOL. WGT. MEAN :	*****

***** : INSUFFICIENT DATA

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CENTRAL REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 2, 84 TO JAN 2,85 PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/MM**2	TOTAL H+ TO PH8.3 MG/MM**2	SULPHATE MG/MM**2	NITRATE AS N MG/MM**2	CALCIUM MG/MM**2	CHLORIDE MG/MM**2
# OF SAMPLES :	62	55	57	59	59	58	58
MAXIMUM :	158.0	10.7898	13.6776	597.70	107.030	111.240	45.606
MINIMUM :	33.1	1.0495	0.9102	56.11	10.730	3.160	2.500
RANGE :	124.9	9.7403	12.7674	541.59	96.300	108.080	43.106
ARITH. MEAN :	73.0	4.0047	5.5566	227.58	38.174	25.941	12.416
ARITH. STD. DEV :	29.8	2.0291	2.6563	108.30	15.774	21.293	6.941
GEOM. MEAN :	67.7	3.5651	4.9122	204.66	35.278	19.615	10.866
GEOM. STD. DEV. :	1.5	1.6355	1.7125	1.60	1.505	2.145	1.693
1ST QUARTILE :	51.5	2.7235	4.0040	162.45	28.460	11.160	7.595
2ND QUARTILE :	68.0	3.4763	5.1725	207.40	34.928	18.865	11.270
3RD QUARTILE :	84.5	4.6154	6.4731	260.15	47.124	34.080	15.264
VOL. WGT. MEAN :	########	3.9529	5.6945	229.27	38.458	26.116	12.500

	KJELDAHL AS N MG/MM**2	MAGNESIM MG/MM**2	POTASSIM MG/MM**2	SODIUM MG/MM**2	AMMONIUM AS N MG/MM**2	PHOSPHOR MG/MM**2	MANGANSE MG/MM**2
# OF SAMPLES :	58	58	57	58	59	57	57
MAXIMUM :	80.250	18.870	14.575	31.786	65.450	6.3750	0.7700
MINIMUM :	7.500	0.172	0.000	0.000	4.000	0.0000	0.0250
RANGE :	72.750	17.897	14.575	31.786	61.450	6.3750	0.7450
ARITH. MEAN :	33.064	3.964	2.546	4.807	26.277	0.7999	0.2182
ARITH. STD. DEV :	18.030	3.837	2.841	4.646	14.943	1.2252	0.1669
GEOM. MEAN :	28.709	2.762	1.579	3.377	22.238	0.4448	0.1688
GEOM. STD. DEV. :	1.718	2.370	3.003	2.488	1.838	3.0541	2.0849
1ST QUARTILE :	20.320	1.440	0.370	2.135	15.662	0.1327	0.0947
2ND QUARTILE :	27.871	2.761	1.772	3.550	22.792	0.4750	0.1730
3RD QUARTILE :	42.380	4.595	3.800	6.315	33.600	0.7990	0.2720
VOL. WGT. MEAN :	33.031	3.991	2.530	4.839	26.473	0.7952	0.2191

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CENTRAL REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 2, 84 TO JAN 2,85

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES	59	59	59	57	59	57	59
MAXIMUM	0.1382	1.292	14.5477	1.3180	0.139	13.860	0.3766
MINIMUM	0.0120	0.085	0.5147	0.0916	0.013	0.797	0.0368
RANGE	0.1262	1.207	14.0330	1.2264	0.126	13.063	0.3399
ARITH. MEAN	0.0370	0.414	3.1231	0.4953	0.065	3.187	0.0873
ARITH. STD. DEV	0.0197	0.269	2.7563	0.2533	0.031	2.479	0.0658
GEOM. MEAN	0.0333	0.353	2.3555	0.4335	0.057	2.576	0.0741
GEOM. STD. DEV.	1.5772	1.740	2.0840	1.7215	1.722	1.880	1.6763
1ST QUARTILE	0.0250	0.237	1.3674	0.3304	0.041	1.673	0.0512
2ND QUARTILE	0.0328	0.329	2.1207	0.4279	0.062	2.305	0.0608
3RD QUARTILE	0.0432	0.457	4.0909	0.5957	0.078	3.930	0.0934
VOL. WGT. MEAN	0.0373	0.417	3.1463	0.4916	0.066	3.193	0.0879

	CADMIUM MG/M**2
# OF SAMPLES	59
MAXIMUM	0.02280
MINIMUM	0.00158
RANGE	0.02122
ARITH. MEAN	0.00668
ARITH. STD. DEV	0.00368
GEOM. MEAN	0.00592
GEOM. STD. DEV.	1.63259
1ST QUARTILE	0.00402
2ND QUARTILE	0.00591
3RD QUARTILE	0.00780
VOL. WGT. MEAN	0.00673

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTHEASTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 4, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	98	88	87	92	92	88	89
MAXIMUM :	169.0	9.9422	13.4562	631.78	105.820	66.396	49.770
MINIMUM :	0.0	0.3489	0.5400	5.68	1.516	1.137	0.700
RANGE :	169.0	9.5933	12.9162	626.10	104.304	65.259	49.070
ARITH. MEAN :	74.7	3.1650	4.9587	199.55	28.327	15.487	10.405
ARITH. STD. DEV :	38.1	2.0390	2.7538	127.43	17.565	13.527	7.582
GEOM. MEAN :	60.9	2.5856	4.2329	158.56	22.767	10.787	8.185
GEOM. STD. DEV. :	2.1	1.9357	1.8091	2.13	2.106	2.473	2.112
1ST QUARTILE :	50.8	1.7289	2.8667	101.90	15.206	6.037	5.840
2ND QUARTILE :	70.6	2.5926	4.0359	180.72	26.319	11.480	8.250
3RD QUARTILE :	96.0	3.9994	6.7032	273.69	36.200	20.050	13.736
VOL. MGT. MEAN :	********	3.0821	4.9651	193.00	27.398	14.941	10.073

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	86	88	87	87	90	87	88
MAXIMUM :	172.082	14.971	47.565	36.500	108.944	14.3190	1.4084
MINIMUM :	3.348	0.000	0.000	0.000	0.000	0.0355	0.0189
RANGE :	168.734	14.971	47.565	36.500	108.944	14.2835	1.3894
ARITH. MEAN :	36.304	2.709	5.068	4.372	23.717	1.4552	0.2642
ARITH. STD. DEV :	32.954	2.922	7.892	5.118	22.135	2.4665	0.2657
GEOM. MEAN :	25.303	1.644	1.995	2.785	13.887	0.5608	0.1686
GEOM. STD. DEV. :	2.429	2.886	4.146	2.699	3.514	4.0711	2.6858
1ST QUARTILE :	12.540	0.715	0.475	1.487	6.502	0.1718	0.0940
2ND QUARTILE :	29.502	1.877	1.641	2.836	20.638	0.5537	0.1610
3RD QUARTILE :	50.320	3.536	5.024	5.592	33.826	1.4062	0.3313
VOL. MGT. MEAN :	34.760	2.613	4.936	4.238	23.035	1.3805	0.2511

***** : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTHEASTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 4, 84 TO JAN 2,85 PAGE : 2

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES	89	87	87	88	89	87	87
MAXIMUM	0.7050	2.341	16.7649	2.3918	0.169	18.542	0.5788
MINIMUM	0.0075	0.079	0.3350	0.1085	0.011	0.296	0.0137
RANGE	0.6975	2.262	16.4299	2.2833	0.158	18.246	0.5651
ARITH. MEAN	0.0607	0.428	3.5768	0.5189	0.068	3.823	0.1031
ARITH. STD. DEV	0.0914	0.354	3.5510	0.3729	0.040	4.173	0.0833
GEOM. MEAN	0.0404	0.337	2.3587	0.4263	0.055	2.493	0.0840
GEOM. STD. DEV.	2.1759	1.970	2.4893	1.8515	2.015	2.438	1.8572
1ST QUARTILE	0.0254	0.209	1.1998	0.2658	0.038	1.208	0.0576
2ND QUARTILE	0.0375	0.347	1.9771	0.4183	0.062	2.013	0.0757
3RD QUARTILE	0.0557	0.533	4.4669	0.6566	0.088	4.514	0.1253
VOL. WGT. MEAN	0.0578	0.415	3.4135	0.4979	0.064	3.648	0.0999

	CADMIUM
	MG/M**2
# OF SAMPLES	88
MAXIMUM	0.11000
MINIMUM	0.00097
RANGE	0.10903
ARITH. MEAN	0.00924
ARITH. STD. DEV	0.01314
GEOM. MEAN	0.00623
GEOM. STD. DEV.	2.27068
1ST QUARTILE	0.00342
2ND QUARTILE	0.00690
3RD QUARTILE	0.01072
VOL. WGT. MEAN	0.00889

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTHWESTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 31, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	90	68	81	82	83	73	81
MAXIMUM :	183.6	4.4668	6.7200	286.35	46.692	80.568	25.680
MINIMUM :	0.0	0.0175	0.0465	5.06	0.000	0.000	1.165
RANGE :	183.6	4.4493	6.6735	281.29	46.692	80.568	24.515
ARITH. MEAN :	59.7	0.9016	2.2414	85.64	14.878	14.069	6.136
ARITH. STD. DEV :	38.6	0.8625	1.4231	64.81	10.086	14.788	5.103
GEOM. MEAN :	40.4	0.5826	1.7499	64.00	11.153	9.328	4.781
GEOM. STD. DEV. :	3.1	2.8802	2.3182	2.31	2.072	2.472	1.962
1ST QUARTILE :	31.1	0.3300	1.3470	42.31	8.360	5.766	3.012
2ND QUARTILE :	52.1	0.6800	1.7953	71.54	12.605	9.745	4.079
3RD QUARTILE :	85.0	1.1096	3.0136	101.84	19.319	16.810	6.600
VOL. WGT. MEAN :	########	0.8228	2.1464	80.82	14.121	12.589	5.802

	KJELDAHL AS N MG/M**2	MAGNESIUM MG/M**2	POTASSIUM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHORUS MG/M**2	MANGANESE MG/M**2
# OF SAMPLES :	74	75	78	76	77	73	73
MAXIMUM :	93.472	12.978	14.471	17.540	52.095	4.0788	1.4174
MINIMUM :	2.640	0.000	0.000	0.000	0.012	0.0350	0.0100
RANGE :	90.832	12.978	14.471	17.540	52.083	4.0438	1.4073
ARITH. MEAN :	26.634	2.415	3.202	3.314	15.650	0.8336	0.2834
ARITH. STD. DEV :	20.205	2.484	3.866	4.254	11.482	0.9096	0.3148
GEOM. MEAN :	19.974	1.591	1.539	1.916	10.312	0.5133	0.1679
GEOM. STD. DEV. :	2.217	2.612	4.020	2.968	3.426	2.7795	2.9399
1ST QUARTILE :	11.278	0.736	0.391	0.468	6.388	0.2804	0.0719
2ND QUARTILE :	21.417	1.690	1.770	2.092	13.843	0.5168	0.1730
3RD QUARTILE :	34.454	3.105	4.563	3.961	21.060	0.8766	0.3600
VOL. WGT. MEAN :	23.258	2.170	2.923	3.040	14.139	0.7336	0.2468

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTHWESTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 31, 84 TO JAN 2,85

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	77	75	74	77	77	70	76
MAXIMUM :	0.0918	1.177	29.5157	1.1765	0.184	42.667	0.4509
MINIMUM :	0.0041	0.055	0.3448	0.0432	0.006	0.477	0.0117
RANGE :	0.0876	1.122	29.1708	1.1333	0.177	42.190	0.4392
ARITH. MEAN :	0.0314	0.278	3.7877	0.3110	0.060	3.948	0.0797
ARITH. STD. DEV :	0.0192	0.225	5.4472	0.2562	0.041	5.945	0.0663
GEOM. MEAN :	0.0250	0.220	2.1265	0.2317	0.044	2.441	0.0627
GEOM. STD. DEV. :	2.0876	1.936	2.7649	2.1669	2.431	2.402	1.9802
1ST QUARTILE :	0.0137	0.135	1.0512	0.1236	0.024	1.298	0.0412
2ND QUARTILE :	0.0301	0.210	2.1347	0.2338	0.055	2.008	0.0612
3RD QUARTILE :	0.0437	0.306	3.9381	0.3599	0.087	3.888	0.0908
VOL. WGT. MEAN :	0.0280	0.249	3.3413	0.2773	0.053	3.470	0.0719

	CADMIUM
	MG/M**2
# OF SAMPLES :	75
MAXIMUM :	0.11770
MINIMUM :	0.00056
RANGE :	0.11714
ARITH. MEAN :	0.00863
ARITH. STD. DEV :	0.01508
GEOM. MEAN :	0.00536
GEOM. STD. DEV. :	2.44479
1ST QUARTILE :	0.00366
2ND QUARTILE :	0.00517
3RD QUARTILE :	0.00835
VOL. WGT. MEAN :	0.00757

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHEASTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 31, 84 TO JAN 2,85

	PRECIP. MM	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2	CHLORIDE MG/M**2
# OF SAMPLES :	37	30	32	36	36	34	33
MAXIMUM :	156.3	8.9680	11.3474	508.05	58.960	50.470	24.360
MINIMUM :	9.8	0.4271	0.6370	22.50	5.088	1.800	2.544
RANGE :	146.5	8.5409	10.7104	485.55	53.872	48.670	21.816
ARITH. MEAN :	64.5	3.5495	4.6009	193.62	30.228	17.893	10.515
ARITH. STD. DEV :	31.5	2.2199	2.6443	117.31	12.634	12.558	5.445
GEOM. MEAN :	57.0	2.9274	3.8668	160.85	27.501	13.941	9.172
GEOM. STD. DEV. :	1.7	1.9433	1.8875	1.92	1.601	2.131	1.725
1ST QUARTILE :	38.0	2.2638	2.9224	108.72	21.115	8.095	5.936
2ND QUARTILE :	60.0	2.7008	4.0404	162.70	26.580	13.500	8.965
3RD QUARTILE :	79.9	4.3738	5.9489	243.97	37.256	22.990	14.803
VOL. WGT. MEAN :	########	3.4173	4.6355	192.88	30.111	17.530	9.994

	KJELDAHL AS N MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2	PHOSPHOR MG/M**2	MANGANSE MG/M**2
# OF SAMPLES :	35	33	35	32	36	35	36
MAXIMUM :	119.567	9.987	9.300	13.110	83.250	8.1250	1.2320
MINIMUM :	3.425	0.152	0.000	0.000	2.544	0.0000	0.0196
RANGE :	116.142	9.835	9.300	13.110	80.706	8.1250	1.2124
ARITH. MEAN :	36.678	2.990	2.807	4.281	24.730	1.3339	0.2689
ARITH. STD. DEV :	29.144	2.050	3.135	3.101	19.477	1.9436	0.2367
GEOM. MEAN :	27.059	2.213	1.741	3.303	18.444	0.5591	0.1967
GEOM. STD. DEV. :	2.286	2.494	3.063	2.136	2.261	4.4719	2.2879
1ST QUARTILE :	13.095	1.539	0.167	1.963	10.379	0.1340	0.1189
2ND QUARTILE :	27.260	2.662	1.410	3.469	19.405	0.5025	0.2010
3RD QUARTILE :	47.055	3.930	4.944	6.317	31.826	1.5687	0.3562
VOL. WGT. MEAN :	36.162	2.907	2.768	4.032	24.566	1.3215	0.2721

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHEASTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 31, 84 TO JAN 2,85

	NICKEL	ZINC	IRON	LEAD	VANADIUM	ALUMINUM	COPPER
	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2	MG/M**2
# OF SAMPLES :	36	34	35	35	36	35	34
MAXIMUM :	0.3250	1.747	9.3280	1.2360	0.156	11.114	0.3497
MINIMUM :	0.0043	0.065	0.2249	0.0715	0.002	0.309	0.0216
RANGE :	0.3207	1.683	9.1031	1.1644	0.154	10.806	0.3281
ARITH. MEAN :	0.0389	0.472	2.5835	0.4610	0.055	2.777	0.0752
ARITH. STD. DEV :	0.0624	0.324	2.0322	0.2246	0.035	2.231	0.0633
GEOM. MEAN :	0.0265	0.387	1.9394	0.4053	0.044	2.173	0.0611
GEOM. STD. DEV. :	2.3130	1.930	2.2234	1.7428	2.283	2.032	1.8348
1ST QUARTILE :	0.0178	0.283	1.0814	0.2855	0.033	1.338	0.0386
2ND QUARTILE :	0.0297	0.380	1.8818	0.4577	0.048	2.085	0.0577
3RD QUARTILE :	0.0452	0.546	3.3606	0.5650	0.066	2.910	0.0855
VOL. WGT. MEAN :	0.0393	0.470	2.6094	0.4657	0.056	2.804	0.0760

	CADMIUM
	MG/M**2
# OF SAMPLES :	36
MAXIMUM :	0.01760
MINIMUM :	0.00061
RANGE :	0.01699
ARITH. MEAN :	0.00651
ARITH. STD. DEV :	0.00444
GEOM. MEAN :	0.00518
GEOM. STD. DEV. :	2.06488
1ST QUARTILE :	0.00356
2ND QUARTILE :	0.00496
3RD QUARTILE :	0.00698
VOL. WGT. MEAN :	0.00659

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHWESTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 31, 84 TO JAN 2,85 PAGE : 1

	PRECIP. MM	FREE H+ LAB MG/MM**2	TOTAL H+ TO PH8.3 MG/MM**2	SULPHATE MG/MM**2	NITRATE AS N MG/MM**2	CALCIUM MG/MM**2	CHLORIDE MG/MM**2
# OF SAMPLES :	107	86	92	101	101	92	102
MAXIMUM :	178.0	19.9720	25.8456	1085.80	117.480	240.000	56.730
MINIMUM :	18.8	0.5044	0.5184	74.08	9.743	6.240	3.900
RANGE :	159.2	19.4675	25.3272	1011.72	107.737	233.760	52.830
ARITH. MEAN :	70.7	4.4200	5.8962	291.66	43.069	38.349	16.219
ARITH. STD. DEV :	31.4	2.6923	3.9671	150.55	17.646	38.030	8.801
GEOM. MEAN :	64.2	3.7142	4.6313	260.80	39.698	27.797	14.395
GEOM. STD. DEV. :	1.6	1.8858	2.1544	1.60	1.513	2.163	1.621
1ST QUARTILE :	51.5	2.7199	3.3820	192.82	31.155	16.268	10.900
2ND QUARTILE :	66.5	4.0856	5.5952	251.70	39.240	25.450	13.960
3RD QUARTILE :	83.5	5.3816	7.6266	357.15	51.915	40.080	19.469
VOL. WGT. MEAN :	#########	4.2335	6.0525	294.58	43.501	37.231	16.267

	KJELDAHL AS N MG/MM**2	MAGNESIUM MG/MM**2	POTASSIUM MG/MM**2	SODIUM MG/MM**2	AMMONIUM AS N MG/MM**2	PHOSPHOR MG/MM**2	MANGANESE MG/MM**2
# OF SAMPLES :	96	92	97	101	98	96	91
MAXIMUM :	119.260	37.797	16.560	34.060	120.000	6.3200	1.2240
MINIMUM :	0.000	0.405	0.000	0.225	2.598	0.0000	0.0225
RANGE :	119.260	37.392	16.560	33.835	117.402	6.3200	1.2015
ARITH. MEAN :	42.632	7.313	3.501	6.092	36.260	0.9163	0.2963
ARITH. STD. DEV :	25.351	7.180	3.211	5.435	23.600	1.0922	0.2402
GEOM. MEAN :	35.321	5.028	2.312	4.264	29.821	0.6282	0.2274
GEOM. STD. DEV. :	1.779	2.408	2.768	2.570	2.071	2.7159	2.0787
1ST QUARTILE :	23.790	2.620	1.367	2.802	19.799	0.2744	0.1400
2ND QUARTILE :	35.035	5.128	2.818	5.027	30.620	0.5340	0.2205
3RD QUARTILE :	53.975	8.700	4.260	7.695	43.965	1.1564	0.3300
VOL. WGT. MEAN :	42.100	7.164	3.483	6.067	35.935	0.9053	0.2896

: INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH
NOTE(2): THE VOLUME WEIGHTED MEAN DEPOSITION REPRESENTS THE PRODUCT OF VOLUME WEIGHTED MEAN CONCENTRATION (SEE PART III) AND ANNUAL PRECIPITATION GAUGE DEPTH, DIVIDED BY THE NUMBER OF SAMPLES.

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHWESTERN REGION/CUMULATIVE PRECIP.

PERIOD OF REPORT : JAN 31, 84 TO JAN 2,85 PAGE : 2

	NICKEL MG/M**2	ZINC MG/M**2	IRON MG/M**2	LEAD MG/M**2	VANADIUM MG/M**2	ALUMINUM MG/M**2	COPPER MG/M**2
# OF SAMPLES :	100	98	89	98	100	89	99
MAXIMUM :	0.2820	3.233	25.2240	2.2341	0.178	24.185	0.1535
MINIMUM :	0.0057	0.135	0.7267	0.0971	0.010	0.535	0.0100
RANGE :	0.2763	3.097	24.4973	2.1370	0.168	23.650	0.3436
ARITH. MEAN :	0.0371	0.728	4.2110	0.6162	0.058	4.434	0.0901
ARITH. STD. DEV :	0.0337	0.570	4.8346	0.3837	0.037	4.879	0.0725
GEOM. MEAN :	0.0288	0.597	2.8089	0.5240	0.046	3.052	0.0697
GEOM. STD. DEV. :	2.0273	1.804	2.2845	1.7830	2.015	2.235	2.0626
1ST QUARTILE :	0.0196	0.419	1.5847	0.3716	0.025	1.681	0.0488
2ND QUARTILE :	0.0319	0.535	2.1542	0.5418	0.054	2.676	0.0615
3RD QUARTILE :	0.0412	0.802	3.9279	0.7137	0.073	4.433	0.1095
VOL. WGT. MEAN :	0.0371	0.720	4.0763	0.6179	0.058	4.292	0.0897

	CADMIUM MG/M**2
# OF SAMPLES :	100
MAXIMUM :	0.26520
MINIMUM :	0.00205
RANGE :	0.26115
ARITH. MEAN :	0.01439
ARITH. STD. DEV :	0.03896
GEOM. MEAN :	0.00822
GEOM. STD. DEV. :	2.33449
1ST QUARTILE :	0.00453
2ND QUARTILE :	0.00721
3RD QUARTILE :	0.01275
VOL. WGT. MEAN :	0.01439